

1910 NORWEGIAN COD LIVER OIL

OUR first consignment of this Season's Oil has now arrived from Norway, and we shall be pleased to forward samples and quotations on request.

*Supplied in Barrels, Winchester Quarts,
or packed in Bottles, with Chemist's
:: Name and Address on labels. ::*

ALLEN & HANBURY'S, LTD.
LONDON.

AWARDS—LONDON, 1881. VIENNA, 1883. CALCUTTA, 1884. CHICAGO, 1893.

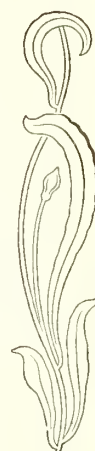
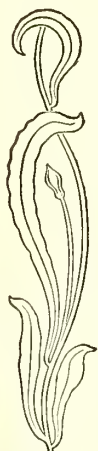
COD LIVER OIL EMULSION

WITH HYPOPHOSPHITES.

Perfect, Inseparable, & Palatable

The following Report will be read with interest:—

“I have just come across a bottle of your Cod Liver Oil Emulsion marked ‘July, 1904,’ which had been pushed away out of sight. Upon examining the contents I found them perfectly sweet and fresh even after this lapse of time. The bottle had been opened in November, 1906, and the contents tasted and found absolutely fresh, with no sign of separation, and a note to this effect was made at the time. Even now there is only the faintest perceptible appearance of separation in the Emulsion—certainly not more than $\frac{1}{8}$ th inch.”



EMULSION SPECIALISTS:

Baiss Brothers & Stevenson

CONTRACTORS TO H.M. GOVERNMENT.

(Limited)

174/175 GRANGE ROAD, BERMONDSEY, LONDON, S.E.

Zam-Buk

THE POPULAR HERBAL HEALER AND SKIN REMEDY.

The Public Demand is stimulated
by Unprecedented Newspaper
and Pamphlet Advertising . . .
Zam-Buk is a line that is always
selling. Keep Your Stock Up!
Attractive Window Shows and
Counter Displays always Ready.

Send Postcard for Prices and Window Display Terms to :—

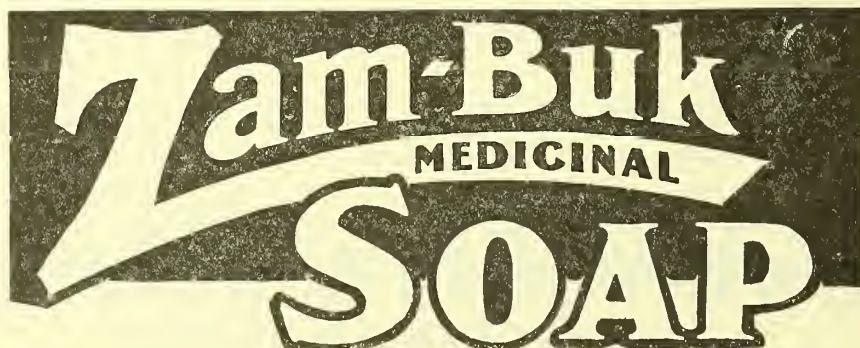
C. E. FULFORD, LTD.

London Address :
45 Cowcross St., E.C.

15 GREEK STREET, LEEDS.

THE MEDICINAL TOILET SOAP

You should Recommend is



The sale of Zam-Buk Soap is gradually increasing, and this attractive line has many features that appeal to the trade and help to make it a success.

Write for Terms to C. E. FULFORD, Ltd., 15 Greek St., LEEDS.

INDEX TO ADVERTISEMENTS IN THIS ISSUE.

HEAD OFFICE: 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMICUS LONDON." Telephone No. 852, Bank
BRANCH OFFICES: MELBOURNE, SYDNEY, AND ADELAIDE, AUSTRALIA

	Page		Page		Page		Page
Allcock Mfg. Co.	43	Essences, Ltd.	11	Kay Bros., Ltd.	16	Raphael's, Ltd.	13
Allen & Hanburys, Ltd.	4	Evans Sons Lescher & Webb, Ltd.	Cover & 17, 27	Kilner Bros., Ltd.	46	Richford, E. M.	30
Alliance Drug & Chemical Co.	29	Exchange Column	Col. Supp.			Robinson & Sons, Ltd.	45
Bailey, W. H., & Son	42	Farmer, F., & Co.	30	Leeds College of Pharmacy ...	12	Salle, H., & Co.	38
Baiss Bros. & Stevenson, Ltd.	5	Faulding, F. H., & Co.	41	Lennon, Ltd.	39	Sanitas Co., Ltd.	Text 290
Barker, F. H.	30	Fennings, A.	Cover	Levermore, A., & Co.	30	Scott & Bowne, Ltd.	16
Barnett & Foster	20	Fentiman, A. G.	30	Lofthouse & Saltmer	24	Schutze, F., & Co.	30
Beiersdorf, P., & Co.	43	Fentiman, A. J., & Co.	31	London College of Chemistry ...	12	Scrubb & Co., Ltd.	26
Berdoo & Fish	Col. Supp.	Fink, F., & Co.	30	Lyle & Co.	31	Seitz, Theo.	20
Blackie, R.	36	Fletcher, Fletcher & Co., Ltd.	Text 290	Macfarlan, J. F., & Co.	37	Shaw, H., & Co.	22
Boehm, F., Ltd.	41	Ford, Shapland & Co.	14	Manchester College of Pharmacy ...	12	Shirley Bros., Ltd.	16
Botwright & Grey	13	Fulford, C. E., Ltd.	6	Maw, S., Son & Sons	25	Singleton & Cole, Ltd.	30
Bradley & Bourdas	45	Galen Manfg. Co.	30	Mawson & Co.	30	South of England College of Pharmacy ...	12
Brett & Co.	Col. Supp.	Gardner, W., & Sons (Gloucester), Ltd.	44	Mav & Baker, Ltd.	Cover	Standard Tablet & Pill Co.	34
Bristol-Myers Co.	19	Goodall, Backhouse & Co.	Cover	Miller, A., & Co., Ltd.	20	Stedman, Dr.	30
Bronnley, H., & Co., Ltd.	22	Halder, E. C.	31	Mitchell, N. W., & Sons, Ltd.	13	Thompson Bros.	23
Brunner, Mond & Co., Ltd.	Cover	Harker, C. R., Stagg & Morgan, Ltd.	26	Muter's (South London) School of Pharmacy ...	12	Tomlinson & Hayward, Ltd.	Text 290
Burge, Warren & Ridgley, Ltd.	42	Harker, C.	31	Mysantal, The, Co.	23	Tompkins, J., Ltd.	31
Burrough, J., Ltd.	Text 290	Henry, T., & W.	44	National Cash Register Co., Ltd.	14	Tye & Son	31
Burroughs Wellcome & Co.	33	Herpicie, The, Co.	26	Northampton Polytechnic ...	12	Van Abbott, G., & Sons	30
Cadbury Bros.	Cover	Hoffmann La-Roche, Ltd.	38	Northern College of Pharmacy ...	12	Vernon & Co., Ltd.	42
Callard & Co.	31	Honer & Sons	39	Onkey, J., & Sons, Ltd.	45	Viscose Development Co., Ltd.	13
Camwall, Ltd.	18	Hovenden, R., & Sons, Ltd.	38	O'Neill, S., & Sons, Ltd.	26	Wand Manfg. Co.	40
Capsuloids (1909), Ltd.	3	Hubbuck, T., & Son, Ltd.	32	Orridge & Co.	Col. Supp.	Wardale & Co.	31
Cataline, The Co.	23	Hughes, E. Griffiths	30	Parke, Davis & Co.	15	Warrick Bros.	34
Christy, T., & Co.	31	Huntley, Boorne & Stevens, Ltd.	24	Pears, A. & F., Ltd.	35	Washington Chemical Co., Ltd.	40
Coleman & Co., Ltd.	19	Ichthyol Co.	38	Pfeiffer & Co.	40	Wehner, A., & Co.	31
Congreve, G. T.	40	Ilford, Ltd.	Cover	Phillips, Chas H., Chem. Co.	Text 290	Wilcox, Jozean & Co.	Text 290
Conway, W., & Sons, Ltd.	44	Ingram & Royle, Ltd.	19	Plöttner & Franke	44	Wilson Vet. Medicine Mfg. Co.	40
Coverdale's Poultry Powder, Ltd.	19	International Chem. Co.	30	Pointet & Girard	44	Wolfsberger, J. H., & Co.	40
Cox, A. H., & Co., Ltd.	Cover	Iron-Ox Remedy Co., Ltd.	41	Potter & Clarke, Ltd.	21	Wood, V.	42
Cullwick, H. E.	31	Isaacs, I., & Co.	44	Quelch, H. C., & Co.	24	Zahradnik, J.	31
Daggett & Ramsdell	22					Zcal, G. H.	12
Day & Sons (Crewe), Ltd.	39					Zimmermann, A. & M.	22
Dunlop Rubber Co., Ltd.	43						
Ecosolent Compounds, Ltd.	31						
Eley Bros., Ltd.	23						
Esfon	41						

THE BUYERS' GUIDE.

In this section, under appropriate headings, are given the names of firms advertising in this or other issues of the month. No charge is made to advertisers for the insertion of their names, but only those who have contracts current for advertising in this journal are mentioned. The headings refer generally to the classes of goods actually advertised, but this is not a detailed Guide such as appears in "The Chemists' and Druggists' Diary." Inquiries addressed to the "Information Department," THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., regarding articles not appearing in these pages receive prompt attention, as shown weekly in the editorial pages.

ACETIC ACID

Boehm, Fredk., Ltd.
Crown Chemical Works, Ltd.
Fuerst Bros.

ADVERTISING IDEAS

Allison, J. R. B.
Degen, F. A.
Ford, Shapland & Co.
Slaak, Bernard
Smith, W. H., & Son

AER-WATER MACHINERY

Barnett & Foster
Consol Automatic Aerators, Ltd.
(See also SODA FOUNTAINS)

AER-WATER MATERIALS

Barnett & Foster
Brunner, Mond & Co.
Bush, W. J., & Co., Ltd.
Hay, William, Ltd.
Stevenson & Howell, Ltd.
Sthamer, Dr. Richard
(See also ESSENCES, SOL.)

AERATED WATERS

Camwall, Ltd.
Idris & Co., Ltd.
Jewshury & Brown

AGENCIES, COLONIAL, & C.

Faulding, F. H., & Co.
Lennon, Ltd.
Morris, A. G.
Nathani, M. R.
Peake, Allen & Co.
Sankyo & Co.

AIR CUSHIONS

Burge, Warren & Ridgley, Ltd.
Hutchinson Co.

ALMANACKS

Townsend, J., & Sons

ALKALOIDS

Boehringer, C. F., & Soehne
Boehringer, C. H., Sohn
Hoffmann-La Roche, Ltd.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Madoery, H.
Merck, E.
Morson, T., & Son
Pointet & Girard
Reitmeyer & Co.
Salle, H., & Co.
Smith, T. & H., Ltd.
Zimmermann, C., & Co.

AMMONIA AND SALTS

Brown & Blackburn
Nichols Chemical Co., Ltd.
Scrubb & Co., Ltd.
White, A., & Sons

ANNATTO

Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd.

ANÆSTHETICS

Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.
Zimmermann, C., & Co.
(See also CHLOROFORM)

ANIMAL THERAPY PRODUCTS

American Animal Therapy Co.

ANTIMONY AND ITS SALTS

May & Baker Ltd
White, A., & Sons

ANTI-OBESITY CURE

Wehner, A. S., & Co.

ANTI-OPIMUM CURE

Gerhardt, C. F.

ANTI-RHEUMATIC RINGS

Burge, Warren & Ridgley, Ltd.

ARTIFICIAL LIMBS

Haywood, J. H., Ltd.

BACTERIAL VACCINES

Allen & Hanburys, Ltd.
Evans Sons Lescher & Webb, Ltd.
Martindale, W.

Parke, Davis & Co.

BALANCES

Parnall & Sons, Ltd.
Maw, S., Son & Sons
Southall Bros. & Barclay, Ltd.
BALLROOM FLOOR POLISH
Lofthouse & Saltmer
Woolley, Jas., Sons & Co., Ltd.

BALSAMS

Dodge & Olcott Co.

BANDAGES

Leshes, Ltd.
Wood, Vincent

BAROMETERS

Darton, F., & Co.

BATH CABINETS

Riley Bros., Ltd.

BED PANS

Bush, Henry W., & Co., Ltd.

BINOCULARS

Darton, F., & Co.

Raphaels, Ltd.

BODY BELTS.

Haywood, J. H., Ltd.

BISMUTH SALTS

Howards & Sons, Ltd.
May & Baker, Ltd.
Morson, T., & Son
Reitmeyer & Co.
Tyer, T., & Co., Ltd.
White, A., & Sons

BOOKS AND MAGAZINES

Ilford "Photo Manual."
Lewis, H. K.
Martindale's "Extra Phar."
Squire's "Companion"

BOTANIC DRUGGISTS

Newball & Mason

Potter & Clarke, Ltd.

BOTTLE ENVELOPES

Tinme, W. O., & Co.

BOTTLES

Barnett & Foster
Beatson & Co.
Bornkessel, F. G.
Brett, E., & Co., Ltd.
Bush, H. W., & Co., Ltd.
Chemist's Co-operative Wholesale
Holzmüller & Schmidt
"Ideal" Bottle,
Isaacs, I., & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Lang, Jules, & Son
Maw, S., Son & Sons
May, Roberts & Co.
Pothe, H., & Co.
Toogood, W., Ltd.
Youldon, E., Ltd.

BREAST RELIEVERS

May & Baker, Ltd.

BRONCHITIS KETTLES

Maw, S., Son & Sons

BOXES

Ayrton, Saunders & Co., Ltd.
Brefitt, E., & Co., Ltd.
Eates, E. B., & Sons
Ford, Shapland & Co.
Harrison & Waide
May, Roberts & Co.
Robinson & Sons, Ltd.
Rogers & Co.
Stevenson, H., & Sons, Ltd.
Stipendum* Stopper Co.
Thompson Bros.

BROMINE AND BROMIDES

Howards & Sons, Ltd.
Merck, E.

BRUSHES

Bidwell, Bidwell & Co.
Hovenden, R., & Sons, Ltd.
International Distributing Co.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Mysalter Co.

BUTTER COLOURING

Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.

CACHETS

Christy, T., & Co.

CACHOUS

Meggesson & Co., Ltd.

CAMOMILES

Boehm, F. J. Ltd.
Carmichael, F. J., & Co.

CAMPFORS

Alliance Drug & Chemical Co.
Chemist's Co-operative Wholesale
Howards & Sons, Ltd.
May & Baker, Ltd.

CAPPING MATERIALS

Viscose Co., Ltd.

CAPS FOR BOTTLES, &c.

Darter, Wilkinson & Co.
Eley Bros., Ltd.

*Gutmann and Leslie Gates
Viscose Co., Ltd. (self-fixing)

CAPSULES

Allen & Hanburys, Ltd.
American Animal Therapy Co.
Baiss Bros. & Stevenson, Ltd.
Betts & Co., Ltd.
British Drug Houses, Ltd.
Davies, Sons & Co.
Denoual, J., & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd.
Lloyd, T. Howard, & Co.
Mason Bros. & Chapman
Mawson & Co.
Parke, Davis & Co.
Tye, J., & Son
Wand Mfg. Co.
Wander, A.
Warriok Bros.
Woolley, J., Sons & Co.

CAPSULING MACHINE

Melin, C., & Co.

CARBOLIC ACID

Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Chemist's Co-operative Wholesale
Hoffmann-La Roche, Ltd.
Hollingshurst & Co.
(See also DISINFECTANTS)

CARBOYS

Brefitt, E., & Co., Ltd.
Toogood, Wm., Ltd.

CARTONS

Ford, Shapland & Co.
Harrison & Waide
Thompson Bros.

Timme, W. O., & Co.

CAUSTIC PENCILS

Lubenow, Hugo, Ltd.

CAUSTIC SODA

Brunner, Mond & Co., Ltd.

CHEMICAL MFERS

Boehringer, C. F., & Soehne
Brumwell, E., & Son
British Drug Houses, Ltd.
Brunner, Mond & Co., Ltd.
Burrongs Wellcome & Co.
Evans Sons Lescher & Webb
Hoffmann-La Roche, Ltd.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Merck, E.
Morson, T., & Son
Pointet & Girard
Reitmeier & Co.
Sohmmel & Co.
Smith, T. & H., Ltd.
Sthamer, Dr. Richard
Sturge, John & E.
Tyrer, T., & Co., Ltd.
Washington Chemical Co.
White, A., & Sons

CASH TILLS

National Cash Register Co., Ltd.

CASTOR OIL

Boehm, F. J. Ltd.
Carmichael, F. J., & Co.
Fuerst Bros.
Hull Oil Mfg. Co., Ltd.

CEMENTS

Key Bros., Ltd.

CHALK, PRECIPITATED

Levmore, A., & Co.
Mumford, G. S., & Sons
Nichols Chemical Co., Ltd.
Sturge, John & E.

CHEMISTS, MFG.

Acme Chemical Co., Ltd.
Allen, Stafford, & Sons, Ltd.
Ayrton, Sandders & Co.
Barnett & Foster
Bayer Co., Ltd.
Beetham, M., & Son
Bell, John, Hills & Lucas, Ltd.
Blackie, R.
Boulton, J., & Co.
Brady & Martin, Ltd.
British Drug Houses, Ltd.
Burrongs Wellcome & Co.
Bush, W. J., & Co., Ltd.
Cartwright, W. B., Ltd.
Davenport, J. T., Ltd.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd.
Fletcher, Fletcher & Co.
Geiger & Brann
Hay, William, Ltd.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Lorimer & Co., Ltd.
Madoery, H.
Mallmann, W.
Marshalls, Ltd.
Martindale, W.
Newball & Mason
Newbery, F., & Sons, Ltd.
Oldfield, Pattinson & Co.
Oppenheimer, Son & Co.
Parke, Davis & Co.
Potter & Clarke
Randall & Son, Ltd.
Ransom, W., & Son
Salle, H., & Co.
Sankyo & Co.
Shirley Bros., Ltd.
Sonhall Bros. & Barolay, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stevenson & Howells, Ltd.
Thompson & Capper
Tidman & Sons, Ltd.
Tolkien, C., & Co.
Tunbridge & Wright
Wand Mfg. Co.
Wander, A.
(See also WHOLESALERS)

CHEST PROTECTORS

Conoid Co.
May, Roberts & Co.
Solport Bros.

CHLORIDE OF LIME

Brunner, Mond & Co., Ltd.

CHLOROFORM

Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Morson, T., & Son
Smith, T. & H., Ltd.

CIGARS AND CIGARETTES

Hovenden, R., & Sons, Ltd.
Singleton & Cole, Ltd.

CITRIC ACID AND CITRATES

British Drug Houses, Ltd.
Howards & Sons, Ltd.
Morson, T., & Son
Sturge, John & E.

CLINICAL THERMOMETERS

Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Hicks, J. J.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Perken, Son, & Co., Ltd.
Zeal, G. H.

CLOTH BALLS

O'Neill, Zetts & Co.

COCOA

Cadbury Bros., Ltd.
Prime Food Co.

COAL TAR SPECIALITIES

Wright, Layman & Umney, Ltd.

COLD CREAM

Barnett & Co.

Parke, Davis & Co.

COLLAPSIBLE TUBE

Betts & Co., Ltd.
Brooks, Peel & Co.

COD-LIVER OIL

Albrethson, A., & Co.
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Devold, Peder
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Lloyd, T. Howard, & Co.
Oldfield, Pattinson & Co.
Sonhall Bros. & Barolay, Ltd.
Woolley, Jas., Sons & Co., Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, A. & M.

COMBS

Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.

COLOURS, BEVERAGE, &c.

Stevenson & Howell, Ltd.

(See also DAIRY ADJUNCTS)

CONDENSERS

Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.

CORN CURE

Outem Corn Remedy Co.

CORRUGATED PAPER

Ebnrite Paper Co

Timme, W. O., & Co.

CORKS

Ayrton, Sandders & Co.
Mitchell, N. W., & Sons, Ltd.

COUNTER ADJUNCTS

Evans Sons Lescher & Webb, Ltd.

COUNTER BILLS

Ford, Shapland & Co.

COUNTER SPECIALITIES

Allen & Hanburys, Ltd.
British Drug Houses, Ltd.
Hewlett, C. J., & Son
Lloyd, T. H., & Co., Ltd.
Newbery, F., & Sons, Ltd.
Sonhall Bros. & Barolay, Ltd.

CREAM OF TARTAR

British Drug Houses, Ltd.

CREOSOTE

Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood
Morson, T., & Son

CREPE BANDAGE

Gimber, W., & Son
Norwich Crêpe Co. (1856), Ltd.
Wood, Vincent

CYANIDES

May & Baker, Ltd.

DAIRY SPECIALITIES

Fullwood, R. J., & Bland

Oldfield, Pattinson & Co.

DENTAL MECHANICS

Barker, Fred. H.
Cullwick, H. E.
Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Wardale & Co.

DENTIFRICES

Beecham, T.
Beiersdorf, P., & Co.
Bell, John, Hills & Lucas, Ltd.
Blackie, R.
Burrongs Wellcome & Co.
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Eueryl, Ltd.
Hall & Ruokel
"Irex" tooth-powder
Jewsbury & Brown
Lambert Pharmaceutical Co.
McKesson & Robbins
Martindale, W.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Rowland, A., & Sons
Standard Tablet & Pill Co.
Woods, W., & Son
Woolley, J., Sons & Co., Ltd.

DEVELOPERS

Express Developing Co.

DISINFECTANTS

Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Dalmas, A. de St., & Co.
Edwards, W., & Son
Jeyes' Sanitary Compounds, Ltd.
Kay Bros., Ltd.
Lambert Pharmaceutical Co.
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

DEXTRINE

Fink, F., & Co.

DOSE REGULATORS

Maw, S., Son & Sons
Reuter, R. J.

DIABETIC BREAD AND FOOD

Callard & Co.
Van Abbott, G., & Sons

DIGESTIVE PRODUCTS

Armonr & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Squire & Sons
Zimmermann, C., & Co.

DRUGGISTS' SUNDRIES

Ayrton, Saunders & Co., Ltd.
Barolay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley
Bush, H. W., & Co., Ltd.
Chemist's Co-operative Wholesale
Christy, T., & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Pothe, H., & Co.
Qleloh, H. C., & Co.
Reuter, R. J.
Sangers
Schntze, F., & Co.
Shirley Bros., Ltd.
Solport Bros.
Sonhall Bros. & Barolay, Ltd.
Tidman & Son, Ltd.
Toogood, W., Ltd.
Viscose Co., Ltd.
Wattenbach, O.
Wood, Vincent
Woolley, J., Sons & Co.

DRUGS, CRUDE

Baiss Bros. & Stevenson, Ltd.
Carmichael, F. J., & Co.
Gathergood's Exor.
Horner & Sons
Hymans, H., & Co.
Morrison, R., & Co.
Potter & Clarke, Ltd.
Ransom, W., & Son
Salle, H., & Cie.

DRYSALTERIES

Harker, Stagg & Morgan, Ltd.

DYES

Judson, D., & Son

Whitaker & Co. (Hat)

EAR MOPS.

Cooper, R. H., & Co.

EAU DE COLOGNE

Farina, J. M.
Farina, J. M. (No. 4)
Fickens, Courtenay & Co.
McCracken, J. & R.
Schntze, F., & Co.

EDUCATIONAL INSTITUTIONS

Bath and West of England College of Pharmacy
Borough Polytechnic
British Optical Institute
Edinburgh Central School of Pharmacy
Glasgow School of Pharmacy
Leeds College of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College of Pharmacy
Minter's (So. Lond.) School of Pharmacy
North of England School of Pharmacy
Northern College of Pharmacy
Nottingham School of Pharm.
Pharmaceutical Society's School of Pharmacy
South of England College of Pharmacy

EFFERVESCENT PREPS.

Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Blackie, R.
Bristol-Meyer Co.
Cox, A. H., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Howards & Sons, Ltd.
Ktnow, S., & Co., Ltd.
Lorimer & Co., Ltd.
Newball & Mason
Potter & Clarke
Standard Tablet & Pill Co.
Sturge, John & E.
Tyrer, T., & Co., Ltd.
Wright, Layman & Umney

EMERY AND CLOTH
Oakley, J., & Sons, Ltd.

ENTOMOLOG. APPARATUS
Watkins & Doncaster

EPSOM SALTS
Howards & Sons, Ltd.

EMULSIONS, C.C.O., ETC.
Allen & Hanbury, Ltd.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd.
Faulding, F. H., & Co.
Harker, Stagg & Morgan, Ltd.
Lorimer & Co., Ltd.
Oldfield, Pattinson & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Southall Bros. & Barclay, Ltd.
Tolkien, C., & Co.
Woolley, Jas., Sons & Co.

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Haywood, J. H.
Maw, S., Son & Sons
Wood, Vincent

ELECTROPLATING
Galvanit Mfg. Co.

ENEMAS
Bailey, W. H., & Son
Burge, Warren & Ridgley
Daval Rubber Co.
Maw, S., Son & Sons
Toogood, W., Ltd.
Warne, W., & Co., Ltd.

ESSENCES, CONCRETE
Lantier File
Murray, O., & Co., Ltd.
Schmoller & Bompard

ESSENCES, SOL. AND FRUIT
Alliance Drug & Chem. Co.
Barnett & Foster
Bush, W. J., & Co., Ltd.
Evans Sons Lescher & Webb
Fuerst Bros.
Hay, Wm., Ltd.
Lantier File
London Essence Co.
Lorimer & Co., Ltd.
Meggeson & Co., Ltd.
Newball & Mason
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Zimmermann, A. & M.

ETHERS
Baiss Bros. & Stevenson, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Hymans, H., & Co.

EXTRACT OF HERBS
Newball & Mason
Potter & Clarke

EXTRACTS (MEDICINAL)
Allen, Stafford, & Sons, Ltd.
Chemist's Co-operative Wholesale
Gathergood's Exor.
Hewlett, O. J., & Son
Parke, Davis & Co.
Ransom, W., & Son
(See also WHOLESALE DRUGGISTS)

FEEDING BOTTLES
Brenitt, E., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Sangers'
Solport Bros.
Southall Bros. & Barclay, Ltd.

FILTERS, ASBESTOS
Seitz, Theo.

FILTERS (WATER)
Berkefeld Filter Co., Ltd.

FLYCATCHERS
Deansmere Manfg. Co.
Ford, Shapland & Co.
Frowein, C.
Kay Bros., Ltd.
Plöttner & Franke
Smith, J. H., & Co.
Tunbridge & Wright

FOODS, INFANTS'
Allen & Hanbury, Ltd.
Benger's Food, Ltd.
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows Francis B. & T.

FLESH GLOVES
Sangers'
Solport Bros.

FOODS, SPECIAL
Allen & Hanbury, Ltd.
Bayer Co., Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Brusson Jeune
Burt, C. J.
Bvno, Ltd.
Callard & Co.
Fairchild Bros. & Foster
Frame Food Co., Ltd.
Menley & James, Ltd.
Natural Food Co., Ltd.
Wander, A.

FRUIT SYRUPS
Idris & Co., Ltd.

FULLER'S EARTH
Mumford, G. S., & Sons

GELATIN AND GLUE
Boehm, F., Ltd.

GLASSWARE, CHEMICAL
Zakradnik, Jos.

GLAUBER'S SALT
Bramwell, E., & Son
Howards & Sons, Ltd.

GLYCERIN
Boehm, F., Ltd.
Fuerst Bros.
Price's Patent Candle Co.

GLYCERIN PLANT
Forshaw, E., & Son, Ltd.

GOLD PAINT
Judson, D., & Son

GOLDBEATER'S SKIN
Gutmann & Leslie Gates

GRINDERS
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T.

GUMMED PAPER TAPE
Gosheron, John, & Co.

GUMS
Fink, F., & Co.

HAIR PREPARATIONS
Capnoids (1909), Ltd.
Chesebrough Manfg. Co.
Edwards' "Harlene" Co.
Egglossa Mfg. Co.
Harker, Stagg & Morgan
Herpicide Co.
John Strange Winter
Robare's Aureoline
Rowland, A., & Sons
To-Kalon Mfg. Co., Ltd.

HAT DYES
Whitaker & Co.

HEATING APPARATUS
Clark, S., & Co.
Reuter, R. J.

HERBS
Carmichael, F. J., & Co.
Potter & Clarke, Ltd.

HOMOEOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Epps, James, & Co.
Keene & Ashwell, Ltd.
Leath & Ross

HOTELS
Emond Hotel
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Dunlop Rubber Co., Ltd.
Fulham Pottery & Cheaviu
Filter Co., Ltd.
Galen Mfg. Co., Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay
Tompkins, James, Ltd.
Wood, Vincent

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

INSECT POWDER
Boehm, F., Ltd.
Carmichael, F. J., & Co.
Smith, B. A., & Co.

IODINE AND IODIDES
Howards & Sons, Ltd.
Morsan, T., & Son

ITROSYL
Fletcher, Fletcher & Co.

INSECTICIDES
Acme Chemical Co., Ltd.
Christy, Thos., & Co.
Smith, B. A., & Co.
Tomlinson & Hayward, Ltd.

JARS AND POTS
Brenitt, E., & Co., Ltd.
Bush, H. W., & Co., Ltd.
Christy, T., & Co.
Johansen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Lang, Jules, & Son
Maw, S., Son & Sons
Potha, H., & Co.
Reuter, R. J.
Stipendm Stopper Co.
Toogood, W., Ltd.

LACTIC FERMENTS
Allen & Hanbury, Ltd.
Cox, Arthur H., & Co., Ltd.
Davies, Sons & Co.
Lloyd, T. Howard, & Co.
Martindale, W.
Parke, Davis & Co.
Standard Tablet Co.
Wilcox, Jozeau & Co.

LAMPS, PARABOLIC
Bruce, F. & J.

LANOLINE
Barringtons Welloome & Co.
Christy, T., & Co.

LARD
Chemist's Co-operative Wholesale
Ewen, J., & Sons

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, ETC.
Allen, Stafford, & Sons
Mumford, G. S., & Sons

LINTS
Liverpool Lint Co.
May, Roberts & Co., Ltd.
Robinson & Sons, Ltd.
Vernon & Co., Ltd.

LIQUORICE JUICE
Boehm, F., Ltd.
British Drug Houses, Ltd.
Carmichael, F. J., & Co.
Evans, Gray & Hood
Fuerst Bros.
Evans Sons Lescher & Webb, Ltd.
Hornor & Sons
Jackson, E. W.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.
Allen, Stafford, & Sons, Ltd.
Fletcher, Fletcher & Co.
Hewlett, O. J., & Son
Robinson, B., & Co.

LITHIA SALTS
British Drug Houses, Ltd.
Fuerst Bros.
May & Baker, Ltd.
Merck, E.

LOOFAHS
International Sponge Importers

LOZENGES
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Jackson, E. E.
Meggeson & Co., Ltd.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros.

MACHINERY, PHARMACAL
Allen & Hanbury, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Braithwaite, H., & Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Pindar, J. W., & Co.
Smith, B. A., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Parke, Davis & Co.
Washington Chemical Co.

MENTHOL CONES
Bush, H. W., & Co., Ltd.
Cubenow, Hugo, Ltd.
Maw, S., Son & Sons

MAILING CASES
Estes, E. B., & Sons

MALT EXTRACT AND PREPS
Allen & Hanbury, Ltd.
Blackie, R.
British DiaMalt Co.
Barringtons Welloome & Co.
Evans Sons Lescher & Webb
Hewlett, O. J., & Son
Lorimer & Co., Ltd.
Montgomerie & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Woolley, Jas., Sons & Co., Ltd.
Wright, Layman & Umney

MARKING INK
Hickison, A. (Bond's)

MEDICINE CHESTS
Barringtons Welloome & Co.
Keas & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard, & Co.
Parke, Davis & Co.

MEASURES
Beaton & Co.
Bush, H. W., & Co., Ltd.

MEAT EXTRACTS
Armour & Co., Ltd.
Brand & Co., Ltd.

MERCURIALS
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.

METEOROLOGICAL SETS
Darton, F., & Co.

METHYLATED SPIRIT
Barrington, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MINERAL WATERS AND SALTS
Apollinaris Co., Ltd.
British Drug Houses, Ltd.
Cheltenham Municipality
Findlater & Co., Ltd.
Hughes, M. Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)

MIRRORS, TOILET
Sangers

MOTOR GOGGLES
Darton, F., & Co.

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd.
Fuerst Bros.
Hornor & Sons
Jackson, J., & Co.
Lantier File
Lhermine & Ole
London Essence Co.
Macajone, Eugenio, & Co.
Morrison, R., & Co.
Mühlethaler, Th., Ltd.
Pasquale, S. F. de, & Fratelli
Poppelreuter, W.
Ransom, W., & Son
Scheller, Emil, & Co.
Schimmel & Co.
Schmoller & Bompard
Seymour, J.
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Whittaker, Arthur
Wright, Layman & Umney
Zimmermann, A. & M.

OILS, FATTY, ETC.
Allen, Stafford, & Sons, Ltd.
Fuerst Bros.
Price's Patent Candle Co.
Schliemann's Oil & Ceresine Co.
Smith, B. A., & Co.

OILS, MINERAL
Carmichael, F. J., & Co.
Fuerst Bros.
Price's Patent Candle Co.

ointments
Blackie, R.
Calvert, F. O., & Co.
Chemist's Co-operative Wholesale
Lyle & Co.
Oldfield Pattinson & Co.

OPTICAL GOODS
Betwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Nitsche & Günther
Raphael's, Ltd.

OPTICAL INSTRUMENTS
British Optical Institute

OTTO OF ROSE

Bontcheff & Kidoff
Reitmeyer & Co. (synthetic)
Orozoff, P., & Fils
Scheller, Emil & Co.
Seraphimoff, S., & Co.
Shinkoff & Co.

ORANGE WINE

Melrose-Drover Co., Ltd.

OXYGEN GENERATOR

Oppenheimer, Son & Co., Ltd.

OZONE GENERATOR

Reuter, R. J.

FALATINIDS

Oppenheimer, Son & Co.

PAPER TUBES

O'Neill, S., & Sons, Ltd.

PERFUMES

Allen & Hanbrys, Ltd.
Barclay & Sons, Ltd.
Barnett & Co.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Chuit, Naef & Co.
Erasmio Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lescol Perfumery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Morison, G. H., & Co., Ltd.
Newbery, F., & Sons, Ltd.
Quelch, H. C., & Co.
Southall Bros. & Barclay
Spencer, J., Son & Co.
To-Kalon Mfg. Co., Ltd.
Warrick Bros.
West, T., & Son

PASTILLES

Allen & Hanbrys, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Denoual, J., & Co.
Epps, James, & Co.
Evans Sons Lescher & Webb
Meggeson & Co., Ltd.
Wander, A.
Warrick Bros.

PATENT AGENT

Barker, R. W.

PETROLEUM EMULSION

British Drug Houses, Ltd.

PETROLEUM JELLY

Carmichael, F. J., & Co.
Chesebrough Mfg. Co.
Schliemann's Oil & Ceresine Co.

PERFUME MATERIALS

Bontcheff & Kidoff
Bnah, W. J., & Co., Ltd.
Chirias, Antoine
Compagnie Morana
Lautier Fils
Mühlethaler, Th., Ltd.
Murray, O., & Co., Ltd.
Scheller, Emil & Co.
Schimmel & Co.
Shipkoff & Co.
Spencer, J., Son & Co.
Zimmermann, C., & Co.

PESSARIES

Burge, Warren & Ridgley
Rendell, W. J.

PHOTO. CHEMICALS

Boehringer, O. F., & Soehne
Burroughs Wellcome & Co.
Merck, E.
Reitmeyer & Co.

PHOTO. ENLARGERS,**PRINTERS, &c.**

Express Developing Co.
Halifax Photographic Co.

PHOTO. GOODS

Barclay & Sons, Ltd.
Darton, F., & Co.
Evans Sons Lescher & Webb, Ltd.
Halifax Photographic Co.
Ilford, Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Reitmeyer & Co.

PILL BOXES

Evans Sons Lescher & Webb, Ltd.

PLASTERS

Alloook Mfg. Co.
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas A. de St., & Co.
Leslies, Ltd.
Maw, S., Son & Sons
Solport Bros.

PILL COUNTERS

Bornkessel, F. G.

PILL MAKERS

Allen & Hanbrys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Standard Tablet & Pill Co.
Wand Mfg. Co.

POCKET SPITTOON

Sanitas Co., Ltd.

POLISHES (VARIOUS)

Bradley & Bourdas
Judson, Daniel, & Son
Oakley, J., & Son, Ltd.

PROPRIETARY ARTICLES

Anglo-American Drug Co.
Ashton & Parsons, Ltd.
Barclay & Sons, Ltd.
Bayer Co., Ltd.
Beecham, T.
Beiersdorf, P., & Co.
Box, W. H.
British Drug Houses, Ltd.
Burgess, E.
Capsuloids (1909), Ltd.
Chameleone Oil Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Congreve, G. T.
Conoid Co.
Cox, A. H., & Co., Ltd.
Curry, Henry
Daggett & Ramsdell
Daisy, Ltd.
Danyasz Virns, Ltd.
Da Silva & Co.
Davenport, J. T., Ltd.
Day & Sons (Crewe), Ltd.
Denoual, J., & Co.
Ecosolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Fellows' Syrup
Fennings, Alfred
Ferre & Co.
Finford, C. E., Ltd.
Goodall, Backhouse & Co.
Gordon, Murray & Co., Ltd.
Guy's Tonic Co.
Harvey & Co. (Dublin), Ltd.
Henry, T. & W.
Hovenden, R., & Sons, Ltd.
Hughes, E. Griffiths
Iohthyl Co.
International Chemical Co.
Iron-Ox Rem. Co., Ltd.
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Lalor, J. Dr., Phosphodyne
Lambert Pharmacal Co.
Lofthouse & Saltmer
Lorimer & Co., Ltd.
Martindale, W.
May, Roberts & Co.
Menley & James, Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Owbridge, W. T., Ltd.
Pedey Co.
Phillips, Chas H., Chem. Co.
Quinine Bitters Mfg. Co., Ltd.
Reitmeyer & Co.
Resinol Chemical Co.
Sangers'
Sartolin, Ltd.
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Teething Powders
Sterling Remedy Co.
Thompson & Capper
Tunbridge & Wright
Voss & Co.
Walker & Son
Wilcox, Josean & Co.
Zimmermann, A. & M.
Zimmermann, C., & Co.
Zotos, Ltd.

(See also DENTIFRICES and TOILET ARTICLES)

POSTERS

Ford, Shaplan & Co.

POULTRY POWDER

Coverdale Poultry Powder, Ltd.

PULVELL &c

Warrick Bros.

PRINTERS

Christie, Malcolm & Co.
Dudley & Co.
Ford, Shaplan & Co.
Harrison & Waide
Parkes, John, & Co.
Smith, W. H., & Son
Townsend, J., & Sons

PULVERETTES

Oppenheimer, Son & Co., Ltd.

PUMPS

Berkefeld Filter Co., Ltd.

QUININE AND SALTS

Boehringer, O. F., & Soehne
Carmichael, F. J., & Co.
Howards & Sons, Ltd.
Pointet & Girard

RAPE OILS

Hull Oil Mfg. Co.

RAZORS

Auto-Strop Safety Razor Co.
Hovenden, R., & Sons, Ltd.
International Distributing Co

RENNET

Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOLDS

Allen, S., & Sons, Ltd.
Allen & Hanbrys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS

Zimmer & Co.

RUBBER GOODS

Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Dunlop Rubber Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Galen Mfg. Co.
Hasting, Lang & Co., Ltd.
Haywood, J. H.
Hovenden, R., & Sons, Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Shirley Bros., Ltd.
Warne, W., & Co., Ltd.

RUBBER SPONGES

Wanklyn, H. A.

SACCHARIN

Saccharin Corporation, Ltd.

SALICIN

Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.

SAMPLE CASES

Keane, Thomas

SANTONIN

Smith, B. A., & Co.

SAPONIN

Field, C. W.
Stamer, Dr. R.

SAUCES

Goodall, Backhouse & Co.

SCALE PREPARATIONS

Morson, T., & Son

SCALES, WEIGHING

Maw, S., Son & Sons
Parnall & Sons, Ltd.
Southall Bros. & Barclay, Ltd.

SEA SALT

Tidman & Son, Ltd.

SEA-SICKNESS REMEDY

Zotos, Ltd.

SEEDS

Conway, Wm., & Sons, Ltd.
Potter & Clarke, Ltd.

SELTZOGENES

Aerators, Ltd.

SERUMS AND ANTITOXINS

Allen & Hanbrys, Ltd.
American Animal Therapy Co.
Evans Sons Lescher & Webb, Ltd.
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Josean & Co.

SHARES

McAdam & Tuokniss

SHEEP-DIPS

Acme Chemical Co., Ltd.
Burt, Boulton & Haywood
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.

SHOP-FITTING

Ayrton-Graham, Ltd.
Bowling & Son
Evans Sons Lescher & Webb, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons, Ltd.
Ridduck & Co.
Sangers'
Southall Bros. & Barclay, Ltd.

SODA FOUNTAINS

Consol Automatic Aerators, Ltd.

SOAP MATERIALS

Armour & Co., Ltd.
Chirias, Antoine

SOAPS

Allen & Hanbrys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Chesebrough Mfg. Co.
Cook, E., & Co. Ltd.
Erasmio Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hull Oil Mfg. Co., Ltd.
International Distributing Co.
Lescol Perfumery Co.
Oakley, J., & Son, Ltd.
Pears, A. & F., Ltd.
Peat Products (Sphagnol), Ltd.
Price's Patent Candle Co.
Shaw, Henry, & Co.
Wright, Layman & Umney

SOAP PLANT

Forshaw, R., & Son, Ltd.

SOAPS, MEDICATED

Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Fulford, C. E., Ltd.
Lambert Pharmacal Co.
Resinol Chemical Co.
Wright, Layman & Umney

SODIUM BICARBONATE

Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S.

SOOTHERS & FITTINGS

Hasting, Lang & Co., Ltd.
Shirley Bros., Ltd.

SOYA OIL

Hull Oil Mfg. Co.

SPARKLETS

Aerators, Ltd.

SPECTACLES

Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther
Raphael's, Ltd.

SPHYGMOMETERS

Hicks, J. J.

SPIRIT OF WINE

Burrough, J., Ltd.
Preston's Liverpool Distiller

SPITTING-FLASKS

Maw, S., Son & Sons

SPONGE BAGS

Maw, S., Son & Sons
Sohutze, F., & Co.
Toogood, W., Ltd.

SPONGES

Internl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
Sangers'
Wanklyn, H. A.

SPONGIO-PILINE

Whitehead R. R. & Bros

SPONGE SHOW STANDS

Wanklyn, H. A.

SPRAYS

Burge, Warren & Ridgley, Ltd.
Burt, Boulton & Haywood, Ltd.
Davol Rubber Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Reuter, R. J.

SPRINKLER TOPS

Betts & Co., Ltd.
Brooks, Pell & Co.

STARCH

Mumford, G. S., & Sons

STILLS

Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Brathwaite, H., & Co., Ltd.

STOPPERS

Fletcher, Fletcher & Co.
Stipendum Stopper Co.

STOVES, TRAVELLING

Reuter, R. J.

SURGICAL APPLIANCES

Allen & Hanbrys, Ltd.
Bailey, W. H., & Son
Burroughs Wellcome & Co.
Haywood, J. H., Ltd.
Hutchinson Co.
Maw, S., Son & Sons
Quelch, H. C., & Co.
Wood, Vincent
Warne, W., & Co., Ltd.

SUPPOSITORIES

Cox, Arthur H., & Co.
Peat Products (Sphagnol), Ltd.

SURGICAL DRESSINGS

Beiersdorf, P., & Co.
Berliner, Arthur
Barronhoughs Wellcome & Co.
Bush, H. W., & Co., Ltd.
Dalmas, A. de St., & Co.
Galen Mfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Leslies, Ltd.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newcome, O.
Robinson & Sons, Ltd.
Southall Bros. & Barolay, Ltd.
Thermogene Co., Ltd.
Vernon & Co., Ltd.
Wood Vincent
Woolley, J. Sons & Co., Ltd.

SUSPENSORY BANDAGES

Bailey, W. H., & Son

SYNTHETIC PERFUMES

Boehringer, C. F., & Soehne
Bueh, W. J., & Co., Ltd.
Chnit, Naef & Co.
Compagnie Morana
Fuerst Bros.
Murray, O., & Co., Ltd.
Reitmeier & Co.

SYNTHETIC REMEDIES

Boehringer, C. F., & Soehne
Boehringer, C. H., Sohn
Hoffmann-La Roche, Ltd.
Reitmeier & Co.
Wolfsenberger, J. H., & Co.

SYMPHONS,

Aerators, Ltd.
Barnett & Foster
Bremitt, E., & Co., Ltd.
Camwal, Ltd.
Idris & Co., Ltd.

TABLET MACHINERY

Thompson & Capper
Allen & Hanbury's, Ltd.

TABLOID PRODUCTS

Barronhoughs Wellcome & Co.

TARTARIC ACID

British Drug Houses, Ltd.
Boehringer, C. H., Sohn
Fuerst Bros.

TIN BOXMAKERS

Goodall, Backhouse & Co.
Huntley, Boorne & Stevens

TABLETS, COMPRESSED

Allen & Hanbury's, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cartwright, W. B., Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duocan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd.
Howards & Sons, Ltd.
Jackson, E. E.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Standard Tablet & Pill Co.
Thompson & Capper
Wand Manufacturing Co.

TAPE, GUMMED PAPER

Gosheron, John, & Co.

TOILET PAPER

Ford, Shapland & Co.
Newbery, F., & Sons, Ltd.
O'Neill, Samuel, & Sons, Ltd.
Townsend, J., & Sons

TELEPHONE CAPS

Jeyes Sanitary Compound Co.

TELESCOPES

Darton, F., & Co.

TOBACCO

Hovenden, R., & Sons, Ltd.
"Pinoza" Depot
Singleton & Cole, Ltd.

TOFFEE

Meggison & Co., Ltd.

TOOTH-BRUSH CASES

Southall Bros., & Barolay, Ltd.

TOOTH STOPPING

Stevens, P. A.

TRUSSES

Bailey, W. H., & Son
Haywood, J. H.
Wood, Vincent
Woolley, J. Sons & Co., Ltd.

TUBED SPECIALITIES

Christy, T., & Co.
Marshalls, Ltd.
Sangers'

TUBES, DRAWN

Betts & Co., Ltd.
Eley Bros., Ltd.

TURNED WOOD BOXES

Estes, E. B., & Sons

TYPEWRITERS

Yost Typewriter Co., Ltd.

TOILET ARTICLES

Allen & Hanbury's, Ltd.
Armour & Co., Ltd.
Auto-Strop Safety Razor Co.
Barnett & Co.
Beetham, M., & Son
Berliner, Arthur
Blackie, R.
Bronnley, H., & Co., Ltd.
Burronghe Wellcome & Co.
Chesebrough Mfg. Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Daggett & Ramsdell
Dailey, Ltd.
Edwards' Harlene Co.
Egglossa Mfg. Co.
Erasmo Co., Ltd.
Eucryl, Ltd.
Fulford, C. E., Ltd.
Hall & Ruckel
Harker, Stagg & Morgan
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lloyd, A., & Co.
Lloyd, A. S. (Hovenden)
Lorimer & Co., Ltd.
Marshalls, Ltd.
Morrison, G. H., & Co., Ltd.
Mysantol Co.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Papier Poudre, Ltd.
Parke, Davis & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Rowland, A., & Sons
Sangers'
Sanitas Co., Ltd.
Shaw, Henry, & Co.
Standard Tablet & Pill Co.
To-Kalon Mfg. Co., Ltd.
Toogood, W., Ltd.
Velvix Toilet Co.
Woolley, J. Sons & Co., Ltd.

TRADE-MARKS AGENTS

Barker, R. W.
Ford, Shapland & Co.

VASELINE

Chesebrough Mfg. Co.

VANILLA

Whittaker, Arthur

VALUERS

Alexander, H. P.
Baker, P. O.
Berdoe & Fish
Brett & Co.
Orridge & Co.
Smith, Fredk. W.
Tomlinson, T., & Son

VERMIN-KILLERS

Danyez Virus, Ltd.
Evans Sons Leecher & Webb, Ltd.
Farmer, F., & Co.
Grasztat, S., & Co.
Harker, Stagg & Morgan
Kay Bros. Ltd.

VETERINARY MEDICINES

Cataline Co.
Chesebrough Mfg. Co.
Coverdale's Poultry Powder, Ltd.
Day & Sons (Crewe), Ltd.
Edwardes, W., & Son
Harvey & Co. (Dublin), Ltd.
John, H. C.
Lloyd, T. H., & Co.
Tomlinson & Hayward, Ltd.
Walker, Troke & Co.
Wand Mfg. Co.
Wilson Vet. Mfg. Co.
Young, W. F.

VETERINARY INSTRUMENTS

Lloyd, T. Howard, & Co.

VACUUM PANS

Braithwaite, H., & Co., Ltd.

VINEGAR

Grimble & Co.

WATERS, CONCENTRATED

Chemist's Co-operative Wholesale
Robinson, B., & Co., Ltd.

WAXES

Schliemann's Oil & Ceresine Co.

WEED-KILLERS

Acme Chemical Co., Ltd.
Burt, Boulton & Haywood

WINES

Burrongh, J., Ltd.
Miller, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

WINES, MEDICATED

Burrongh, J., Ltd.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co., Ltd.

ZINC OXIDE

Baiss Bros. & Stevenson
Fuerst Bros.
Hubbnek, T., & Son, Ltd.

AWARDED**GRAND PRIX**

— AT THE —

International Exhibition, Paris, April 1906,

FOR QUALITY OF

**FRUIT & SOLUBLE ESSENCES,
FLORAL OTTOS & COLOURS.****THE BEST HOUSE IN THE TRADE.**

UNEQUALLED FOR

Natural Flavours, Fragrant Ottos, Harmless Colours.

Price List and Free Samples on application.

ABC CODE, 5th EDITION.

Telephone
8391
Central**“ESSENCES”**Telegrams:
“Essencing
London.”**J. SPENCER, SON & CO.,**

Manufacturers, Distillers, and Importers,

Offices,
Laboratories,
and Works:**24 Queen Street, Hammersmith, London, W.**

MUTER'S SCHOOL of PHARMACY

SUMMER TERM
APRIL 4

325 KENNINGTON ROAD, S.E.

South of England College of Pharmacy.
(Concilio et labore.)
186 CLAPHAM ROAD, LONDON, S.W.
Principal—H. LUCAS, Ph.C., F.C.S.
Assistant Master—T. W. ATTENBOROUGH, Ph.C. Demonstrator—J. S. WHITE, M.P.S.

Examination Results the Test of Success!
Since January 1908, nearly **100 STUDENTS** have been successful from this College.

PERCENTAGE DOUBLE THE AVERAGE.
HALF TERM, Feb 14th, fee till April, **5½ guineas.**
NEW TERM commences on April 1st for July, **Fee 9 guineas.**

For Prospectus, etc., apply the Principal.

LEEDS COLLEGE OF PHARMACY.
Principal: **F. PILKINGTON SARGEANT.**

MAGNIFICENT PREMISES.
ABSOLUTELY PERSONAL ATTENTION.
MODERATE AND INCLUSIVE FEES

Prospectus and all Particulars on Application.

NEXT COURSE COMMENCES APRIL 5th.

OPTICAL CORRESPONDENCE CLASS.

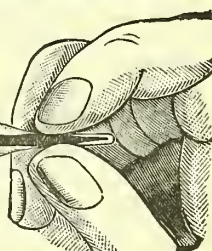
SARGEANT'S ORGANIC CHEMISTRY. 2/- nett, for "Minor" Students.

ZEAL'S PATENT
CLINICAL THERMOMETER
The "REPELLO"

Requires no shaking down.
A 30-Second Pushed back in an instant. Guaranteed Accurate.

Good Selling Lines for Chemists.

Send for list, post free.
G. H. ZEAL, 82 Turnmill St., LONDON, E.C.
Wholesale Manufacturer of
CLINICAL THERMOMETERS.
A SELECTION OF 50 KINDS.
Established 1888 Telephone No. 12438 Central.



LONDON COLLEGE

of **CHEMISTRY, PHARMACY, and BOTANY.**

Principals: { HENRY WOOTTON, B.Sc. (Lond.)
ARTHUR KIRKLAND, Ph.C.

Systematic Courses of Lectures, Classes, and Practical Work in Preparation for the Pharmaceutical Examinations.

The next COMPLETE COURSES for MINOR and MAJOR students begin on APRIL 6.

EXAMINATION RESULTS.—More Students have passed the Pharmaceutical Examinations from the London College, since its establishment, than from any other School. Complete lists of Passes published in the School Prospectus.

JANUARY 1910 London College Passes—
MINOR 24, comprising nearly 40 per cent. of total pass.

For Prospectus, &c., apply to—

The SECRETARY, London College of Chemistry & Pharmacy,
323 CLAPHAM ROAD, LONDON, S.W.

THE Manchester College of Pharmacy.

DIRECTOR: 225a & 227a Oxford Road,
Mr. CHARLES TURNER, F.C.S., Ph.C.
Analytical Chemist. **MANCHESTER.**

THE PART-TIME CLASSES which meet on Tuesdays and Wednesdays are a great help to Students in the district, and enable them to obtain all the required information at a reasonable cost.

ASSISTANTS WHO MEAN BUSINESS should join at the beginning of the term—special arrangements are made to help them with their work, and no pains are spared to enable them to qualify, and so obtain the prestige which is the right of qualified pharmacists.

Northern College of Pharmacy,

100 & 102 BURLINGTON STREET, MANCHESTER.

PRINCIPALS:
GEO. CLAYTON, F.C.S., Ph.C.; F. LAWSON, B.Sc., Ph.C.

The preparation for the Minor Examination is **thorough and complete** in every detail. The proportion of passes consistently **double the average pass.**

The Next Course commences on April 4th.
Intending students should communicate early.

Prospectus posted to any address.

BOOKS FOR THE MINOR.	
Clayton's Qualitative Analysis, 2s. 6d.	Lawson's Volumetric Analysis, 2s. 6d.
„ Organic Chemistry Notes, 2s. 0d.	„ Materia Medica 2s. 6d.
„ Prescription Reading, 2s. 6d.	„ Examination Dispensing, 1s. 6d.

NORTHAMPTON POLYTECHNIC INSTITUTE, Clerkenwell, E.C.

Technical Optics Department.
DEMONSTRATOR IN PHYSIOLOGICAL OPTICS.

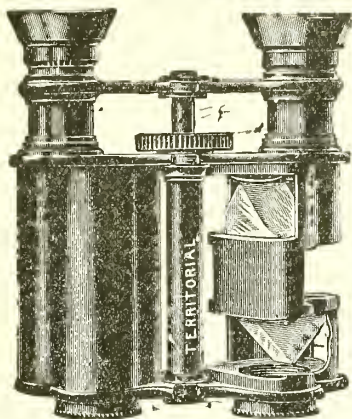
Applications are invited for the position of Demonstrator in Physiological Optics. Full time. Salary £120 per annum. Applicants should have a knowledge of the theory and practice of sight testing and also of the Physiology and Histology of the eye, but special qualifications in one section only will be considered.

For further particulars and application forms apply to the undersigned, to whom applications accompanied by copies of testimonials should be sent not later than 28th February, 1910.

R. MULLINEUX WALMSLEY, D.Sc.
Principal.

THE CHEMIST-OPTICIAN. 4/-, by Post 4/3.
THE CHEMIST'S MEDICAL DICTIONARY. 2/6, by Post 2/8.
PHARMACEUTICAL FORMULAS. (7th Edition.) 10/- by Post 10/6.
ART OF DISPENSING. (8th Edition.) 550 pages. 6/-, by Post 6/4.
VETERINARY COUNTER PRACTICE. (5th Edition.) 4/-, by Post 4/4.
DISEASES AND REMEDIES. (3rd Edition.) 3/-, by Post 3/3.
ELEMENTARY DISPENSING PRACTICE. 3/6, by Post 3/9.

"THE CHEMIST AND DRUGGIST," 42 CANNON STREET; E.C.



THE "TERRITORIAL" PRISM BINOCULAR.

Registered No. 303455.

**BENDING BARS,
SCREW FOCUSING ADJUSTMENT,
INDEPENDENT FOCUSING EYEPIECE,
MAGNIFYING 8x.
SOLID ENGLISH LEATHER CASE.**

**Retail Price, 84/-
TRADE PRICE ON APPLICATION.**

**Any Chemist-Optician not stocking this should
write for one on approval!**

TO BE OBTAINED FROM ANY WHOLESALE OPTICIAN, OR

RAPHAEL'S

LIMITED.

57b & 57c HATTON GARDEN, LONDON, E.C.

LENS MEASURE

FOR MEASURING

Spherical and Cylindrical Lenses

Price **17/6** each post free.

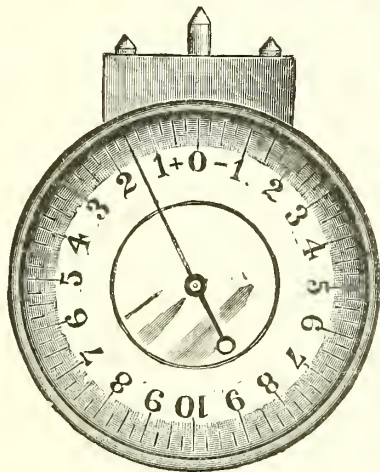


Illustration shows instrument exact size.

Manufactured and Sold by—

BOTWRIGHT & GREY,

Spectacle and Eyeglass Makers,

**13 & 14 Spencer Street, Clerkenwell
LONDON, E.C.**

ÆSCULAPIUS

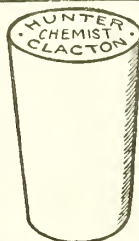
TALKS—No. 8.

A useful feature of

VISCOSE BOTTLE CAPS

is the fact that you can have them in all colours and sizes. You may have red, blue, green, white, &c. in either opaque or transparent and therefore very smart effects can be obtained. No matter what the shape of the bottle stopper or cork, or how irregular, a Viscose cap will mould itself to that shape with only two or three seconds' labour in putting on. Quite air and spirit tight. Booklet Free.

VISCOSE DEVELOPMENT CO., Ltd.
3 New Court, Carey Street, W.C.



**Would you like
your name branded
on your Corks?**

It costs next to nothing.

Full particulars, sample and price list of all Chemists' Corks free on application.

N. W. MITCHELL & SONS, LTD.

CORK MANUFACTURERS,

"BOUCHON" WORKS, 15-17 FARRANCE STREET, LIMEHOUSE, LONDON, E.

ENORMOUS REDUCTIONS IN PRICES!

National Cash Registers from £4 upwards
Autographics - - - - - £1 to £6

Established
20 Years.



Established
20 Years.

Use a National Cash Register in your shop!
It will save you money, mistakes it will stop.
Protecting your Customers, trade will increase,
Your time will be saved, and your worry decrease.

Our Machines guaranteed to be cheaper and better than any other make.
 New Machines at lower prices than those charged by other dealers for similar Machines second-hand.

WE ACCEPT MONTHLY INSTALMENTS IF REQUIRED.

Write for particulars, or call at any of our Show Rooms and inspect our stock where we have
Cash Registers suitable for every class of shop, from the smallest to the largest.

BRANCH OFFICES IN EVERY TOWN.

The National Cash Register Co., Limited.

Chief Offices and Showrooms: 225 Tottenham Court Road, London.

FORD, SHAPLAND & CO.

Chemists' and General Printers, &c.

6 GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.

ILLUSTRATED COUNTER BILLS

And ORDINARY COUNTER BILLS

on White or Assorted Tinted Paper.

Specimens and Prices on Application.

LABELS

of every description.

CABINET PAPER for the Water Closet.

In Registered Shape Boxes and Packets.

SAMPLES AND PRICES ON APPLICATION.

TOILET ROLLS

Write for Samples and Prices

Chemists' Slip Labels, from 1/- per 1,000.

Chemists' Pill Labels, from 1/3 per 1,000.

FOLDING CARDBOARD BOXES.

Plain or Printed in Choice Designs for putting up Specialties.

PRICE LISTS, PAMPHLETS, CIRCULARS, BILLHEADS,
CARDS, MEMORANDUMS, PRESCRIPTION ENVELOPES.

And all kinds of **PRINTING** and Stationery required by
 Chemists, at most moderate Prices.

POSTERS

For Chemist's Specialities, &c.

BOOKBINDING

And ACCOUNT BOOK MANUFACTURING in all Branches.

Prescription Books, Ledgers, and Account Books.
Demy Paper, and Wrapping Paper for Chemists,
Twine, Sealing Wax, &c.

AGENTS FOR REGISTRATION OF TRADE MARKS.

Designs furnished if required.

Quality Counts Nowhere to Better
Advantage than in Your
Emulsion Stock.

C.L.O. Emulsion

P., D. & Co. (33%)

Affords an opportunity for a large share of profitable emulsion business. This statement is not theoretical; it is based on the actual experience of hundreds of pharmacists during the present season, and there is no good reason why your own experience should not be equally satisfactory.

To this may be added the fact that there is no more telling speciality for display purposes, either in the window or on the counter, than the P., D. & Co. Cod Liver Oil Emulsion, 33%. As this line is not packed in a carton, the customer can observe both the appearance of the contents and the size of the container.

The quality of this emulsion pleases your customers, and it pays you to offer it for sale because you need never have an unsatisfactory package on your premises. We exchange all deteriorated stock, and we protect you against the attacks of low-price competition by a minimum profit of 45%. It is thus quite the equal of an own name speciality, and you have the advantage of a standard preparation. :: :: 16 oz. 2/6; 8 oz. 1/4. (P.A.T.A.)

It may be obtained direct, or through any wholesaler; or if you wish a sample, write us and we will send one by return.

Parke, Davis & Co., London.

Laboratories: Hounslow, Middlesex.

OFFICES: 50 Beak St., Regent St., W.

ON THE P.A.T.A. LIST



☐ In consequence of extensive advertising in the best London and Provincial Journals, coupled with its magnificent and unvarying quality, and the further fact that it is widely and regularly prescribed by the medical profession

SCOTT'S
EMULSIONTRADE
MARK

☐ Sells quickly.

☐ All you have to do is to hand out the bottle and take in the money.

☐ More than that, people's experience of the first bottle prompts them to come to you again, so that every bottle sold promises the sale of more bottles. Once a customer, always a customer where Scott's is concerned.

Your stock will never be left long on your shelves—it is for you to see that you keep pace with the demand.

SCOTT & BOWNE, Ltd. 10-11 Stonecutter Street, London, E.C.

"LINSEED COMPOUND"

Regd. Trade Mark of "Kay's Compound Essence of Linseed."
(Now upon the P.A.T.A.)

The above is a well advertised remedy of over 40 years' proven efficacy for the relief of Coughs and Colds.

Supplied by all the Wholesale Houses in London and the Provinces.

Also makers of:

"KAY'S TIC PILLS."

MOUNTAIN FLAX ("Linum Catharticum")
PILLS. Trade Mark

"CHLORO LINSEED" COUGH LOZENGES.

"COAGULINE" Transparent Cement for broken articles, 6d. bottles.

"TENASITINE" A Liquid Cement in Tubes, 1d., 2d., 3d. and 6d.

"KLINX" Hydraulic Cement (heatproof), 6d. Tins.

KAY BROTHERS Ltd.
STOCKPORT, ENGLAND.

Telegrams: "Kay Stockport."

Telephone 247 Nat.



To be "UP-TO-DATE" you must have your "VASELINE" packed in the Tapered Glass Jars with Decorated Dome Caps.

3 sizes—1½, 2, and 4 oz.

Smartest and Best Value in the market.

Sole Packers of this particular line :
SHIRLEY BROTHERS, Ltd.

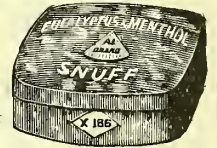
Prices, &c., on application.

The old-fashioned round jars are "not in it" with this package.

MENTHOL & MENTHOL
& EUCALYPTUS SNUFF.

Oak Box.

Both on
P.A.T.A.
at 3/6.



Plenty of Profit
to all concerned.

Tortoiseshell Box.

1 doz., 1/10; 6 doz., 1/8 doz.; 12 doz., 18/6;
5-gross lots, 16/6 net.



PINE TREE LOZENGES.

In Blue & Silver Decorated Hinged-lid boxes.
Filled 3/6 doz.
Empty 13/- gross.

BROMPTON
HOSPITAL LOZENGES.

In Hinged Tins, White, Black, & Gold. 1 doz., 1/10; 2 oz., 2/9 doz.; filled. Empty Tins, 8/- & 10/- gross.



SHIRLEY BROTHERS, Ltd., Whitecross Works, LONDON, S.E. and MANCHESTER.

COD LIVER OIL

and Cod Liver Oil Emulsion.

**NEW
SEASON
1910.**



Finest Oil Procurable.

Before placing orders get our Prices and Samples.

EVANS SONS LESCHER & WEBB

LIVERPOOL, LONDON, and NEW YORK, U.S.A. ^{(LIMITED),}

The Superiority of CAMWAL Table Waters



is

Indisputable.

They command a ready Sale wherever introduced, as for Purity, Aeration and Palatability, they are unexcelled.

The High Quality of the Camwal products is maintained by watchful analytical control, by the use of only the best and purest ingredients, and by the most careful and standardised methods of manufacture.

An unique advantage of the Camwal Gold Medal Table Waters is the printed statement on the labels of the Proportions of Ingredients. Medical Men and Chemists can appreciate this important feature, and can, for instance, confidently recommend "Camwal" Lithia Water as being in fact Lithia Water.

Samples, Literature, &c., from

CAMWAL, Ltd.

Head Office: 112 PEMBROKE ST., N.

LONDON, MANCHESTER, BIRMINGHAM,
BRISTOL, HARROGATE AND MITCHAM.

NATURAL MINERAL WATERS, &C.



SOLE AGENTS
FOR

VICHY

(STATE
SPRINGS).

CARLSBAD WATERS, CARLSBAD SPRUDEL-SALT.

AESCLAP,
BONIFACIUS,
CONDAL,
CONTREXEVILLE,
EVIAN,
FRANZ-JOSEF,
FRIEDRICHSHALL,
GIESSHUBLER,
GUBERQUELLE,

Wholesale Agents for

HUNYADI JANOS,
INSALUS,
KISSINGEN,
KRONENQUELLE,
LEVICO,
MONTREUX,
OBERBRUNNEN,
OBER-SELTERS,

PERRIER,
ROSBACH,
RUBINAT,
ST. GALMIER,
VALS,
VILLACABRAS,
VITTEL,
WILDUNGEN,

And all other Natural Mineral Waters.

Price Lists, Show Cards, Dummy Bottles, Pamphlets, &c.

(1)

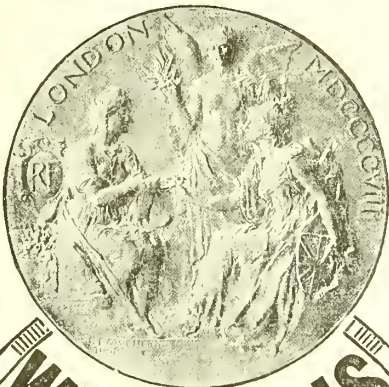
INGRAM & ROYLE, LTD.,

EAST PAUL'S WHARF,
26 UPPER THAMES ST., E.C.

AND AT LIVERPOOL AND BRISTOL.

SPECIAL DISCOUNTS FOR EXPORT.

The
Gold
Medal
Wine
Tonic



London
1908.

WINCARNIS

DO Stock it? It means quick **YOU**
YOU sales and a steady profit if **DO**

SEND FOR LIST.

All Registered Chemists can sell Wincarnis with Quinine without a licence. Why not you?

Medical men in your district order it often, and there is a large public demand. [16]

By Special Appointment to the King & Queen of Spain.

COLEMAN & CO., LTD., 21 Wincarnis Works, NORWICH.

**A Net Profit of £1 : 11 : 5 on
Your First Outlay of £1 : 17 : 7**

COVERDALE'S EGG PRODUCING POULTRY POWDER.

20 Parliament Street, YORK.

Particulars on Page 33, Winter Issue (Jan. 29) of "C. & D."

SAL HEPATICA.

PUT UP FOR EXPORT :

Small size, 3 oz. bottle, in case.
Medium " 7 " " "
Large " 16 " " "

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane,
Type Thames Street, E.C.

The American Drug Stores, 4 Northumberland
Avenue, Charing Cross, W.C., and Craven House,
Kingsway, W.C.

Burgoyne, Burdidges, & Co., 16 Coleman Street,
E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse
Square.

Roberts & Co., 76 New Bond Street, W.



Seitz's Patent Asbestos FILTERS

are indispensable to all

CHEMISTS AND DRUGGISTS

for the Filtration of Liquids such as:

- 1.—**Distilled Waters.** Aq. destil., aq. cinnamon., aq. flor. aurant., aq. amygdal. amar., aq. calcis., aq. menth. pip., aq. foenicul.
- 2.—**Spirits and Spirit Preparations.** (Spir. odor., spir. lavand., spir. menth. pip., spir. vin. rect., spir. camphor., spir. formicar., opodeldoc, spir. aetheris co., mist. ol.-bals. &c.)
- 3.—**Fatty Oils.** (Ol. oliv., ol. sesam., ol. jecor. asell., ol. amygdalae, &c.)
- 4.—**Elixirs and Fluid Extracts.** (Elix. aurant. co., extr. hydrast. canad. fluid, &c.)
- 5.—**Decoctions and Infusions.** (Infus. ipecac. conc., dec. alth., dec. fol. uv. urs., infus. seneg., &c.)
- 6.—**Syrups.** (Syr. simpl., syr. alth., syr. cort. aurant., mel. dep., syr. rnb. idæi, syr. cerasi, &c.)
- 7.—**Alcoholic Tinctures.** (Tinct. arnic., tinct. valer., tinct. valer. aether., tinct. arom., tinct. cinch. co., tinct. amar., tinct. rhei aquos., &c.)

The following are the sizes most suitable for Chemists:

No.	Approximate output per hour.	Quantity of Asbestos for one filtration.	Price net Cash free to destination.			
			Nickelled outside, Tinned inside.	Nickelled inside, Plated tissue.	Plated inside, Plated tissue.	
IV. extra	2-3 Imp. Gall.	$\frac{1}{4}$ oz.	£ s. d. 2 14 0	£ s. d. 3 10 0	£ s. d. 4 5 0	With 2 lbs. Asbestos
IV.	1-1 $\frac{1}{2}$ " "	$\frac{1}{16}$ oz.	1 14 0	2 4 0	2 14 0	" 1 " "
V.	$\frac{1}{2}$ " "	$\frac{1}{32}$ oz.	1 2 0	1 8 0	1 15 0	" 1 " "

Seitz's Filtering Asbestos, 1/6 per lb.

Write for Catalogue "C" to

THEO. SEITZ, 40 Trinity Sq., LONDON, E.C.

Telephone: 422 City. Telegraphic Address: "Simperard London."



A. MILLAR & CO., LTD., DUBLIN PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
London Agent: JAMES STIRTON, 23 ST. DUNSTON'S HILL, E.C.

SODAWATER MACHINERY

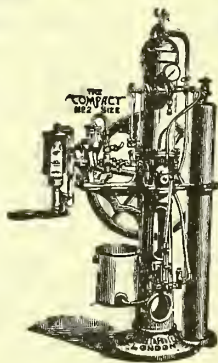
THE "COMPACT" MACHINES

are specially designed for
CHEMISTS, GROCERS, RESTAURATEURS,
and everyone to whom space is an object,
and can be used for filling Syphons, Codd's
Bottles, or Cork Bottles.

**OCCUPY LITTLE SPACE!
ARE READY FOR USE IMMEDIATELY!
REQUIRE NO FIXING!**

Produce Soda Water, Lemonade, &c., of the
highest class and greatest purity.

Write for Catalogue.



**A COMPLETE APPARATUS—
CAPABLE OF PRODUCING OVER
300 DOZEN LARGE BOTTLES
OF AERATED WATER PER DAY
—from £20.**

Bottles, Boxes, Essences, and all
Requisites for the Trade at
Lowest Prices.

BARNETT & FOSTER, Niagara Works, 26th Eagle Wharf Road, N.

Proprietors of Galloway, Bros., Bolton.

Chemists and the Seed Trade

One of the most attractive and profitable side-lines possible for Chemists. Our seeds sell themselves.

PRIZE WINNERS.



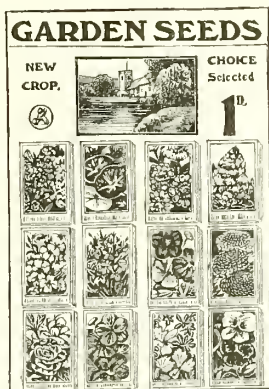
7/- per gross, net. Packed on 3 doz. cards. These should be ordered as Prize Sweet Peas to distinguish between ordinary varieties.



Special one gross cases.

NEW SEED LIST ON APPLICATION.

Have you read
the article on
the Seed Trade
in the
"C & D Diary,"
1910?



On half-gross cards,

5/-

GROSS NET.

If not, do so,
and write to us
for supplies. We
can stock you
fully.

Potter & Clarke, Ltd.

60/64 Artillery Lane, Bishopsgate, LONDON, E.C.

SPERMINUM (POEHL)(C₂H₅N)

SPERMINUM is a purified organic product. For subcutaneous injections it is put up in Ampullae, each containing one dose. Its employment is indicated in cases of NERVOUS DEBILITY, NEURASTHENIA, LOCOMOTOR ATAXY, AND ALL OTHER ALLIED NERVOUS AFFECTIONS.

In milder cases where the resort to subcutaneous injections is objected to, the ESSENTIA SPERMINI may be given with advantage.

Manufactured in the Laboratory of Prof. ALEXANDER V. POEHL & SONS, St. Petersburg.

Full particulars and literature from

A. & M. ZIMMERMANN, 3 LLOYD'S AVENUE, LONDON, E.C.

May Queen
POWDERED TOILET SOAP.
DELICATELY PERFUMED.
Packed in Prettily Decorated Sprinklers.
*Certified by Dr. A. B. Griffiths of London, Public Analyst
as the "VERY BEST TOILET SOAP." Antiseptic, Disinfectant & Hygienic.*
Write for Sample Tin to HENRY SHAW & CO DUKINFIELD.

COURVOISIER'S
CONCENTRATED **CC** PERFUMES
(WITHOUT SPIRIT).



When purchasing, mention C.C., with the name of the Perfume.

VIOITTO, C.C.
HAVANITA, C.C.
LILY OF THE VALLEY, C.C.
ROSE, C.C.

30/- per doz. nett.
3/9 per vial retail.



Actual Size of Vial

A tiny vial, yet containing more essence than an ordinary bottle of perfume at a higher price.
A ready selling line backed by advertising and giving entire satisfaction to the purchaser.
Entered on the P.A.T.A.
A STRONG SELLING ARGUMENT.
Courvoisier's C.C. Perfumes contain no spirits, therefore they, and incidentally the purchaser, pay no spirit duty.

Of your Wholesaler, or direct from—
H. BRONNLEY & CO. Ltd.
ACTON VALE, LONDON, W.

DAGGETT & RAMSDELL'S
PERFECT COLD CREAM.

"The kind that keeps."



The most delightful of all toilet accessories. Known and renowned in every country where daintiness of the toilet is recognised as a mark of refinement. Its popularity is due to its unvarying quality, its absolute purity and the fact that it

NEVER BECOMES RANCID.

Different from and superior to all other cold creams. Not affected by heat, cold or climatic changes. Retains to the last its snowy whiteness, delicate perfume and wonderful properties which have given it international fame.

OBTAINABLE FROM ALL WHOLESALE HOUSES.

Made only by
DAGGETT & RAMSDELL,
Manufacturing Chemists,
17 Charterhouse Buildings, Goswell Rd.
LONDON, E.C.

ELEY

BROS LTD*(The well-known Cartridge manufacturers)*

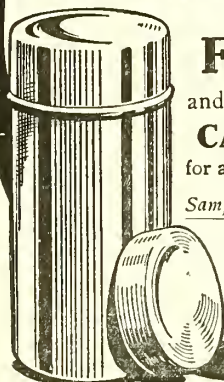
enjoy unique facilities for the manufacture of — and can quote strictly competitive prices for — every variety of electro-plated

DRAWN TUBES

(LONDON MADE)

FOR SOAP

and other dry sundries; also
CAPS AND TOPS
for all kinds of bottles and tubes

Samples and quotations on request.

Eley Bros., Ltd.,
254, Gray's Inn Rd
London, W.C.

Telephones:
Holborn 1678
Central 3993

Telegrams:
ELEY
LONDON

Cataline prevents and cures Inflammatory diseases in Cattle.

TO THE TRADE.Are **you** stocking

CATALINE ?

If not, **now** is the time to send us your orders.
We are posting, this month, 175,000 circulars to 175,000 Farmers.

Many of these **are your customers.**They will be asking **YOU** for Cataline.

RETAILED IN BOTTLES CONTAINING
8 DRENCHES AT 2/- PER BOTTLE.

CATALINE PLEASES YOUR CUSTOMERS
THE SALES WILL PLEASE YOU.

IS

WHAT **CATALINE** YOU
WANT

ORDERS RAILED SAME DAY AS
RECEIVED, CARR'AGE PAID, CASES FREE.

ATTRACTIVE CIRCULARS FOR COUNTER
DISTRIBUTION FREE ON APPLICATION.

Our best cash with order prices are:

	1 dozen	3 dozen	6 dozen
Per dozen	21/-	20/-	19/6

Write now for particulars of new 5 per cent. bonus offer.

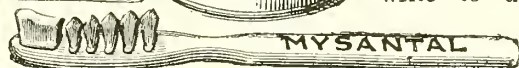
Stocked by most Wholesale Houses.**THE CATALINE CO., BRISTOL**

Boxes. Boxes. Boxes.

CARTONS, SKILLETS AND FOLDING BOXES
OF EVERY DESCRIPTION A SPECIALITY.

THOMPSON BROS., Duckett Works, Kendal.

The MYSANTAL PREPARATIONS



show the retailer not only a good profit, but if bought on window-show terms make 50 per cent. If you are not buying on these terms you should commence now.

Stock **MYSANTAL** and you will gather new Customers.

If you have any difficulty in obtaining the exact **MYSANTAL** article your customer requires, write to us direct; we will promptly attend to your orders.

*Write for particulars to—***The MYSANTAL CO., 55 Berners Street, LONDON, W.**

Important Notice to the Trade.

Owing to the relations of the two firms of Messrs. Johnson & Johnson, of New Brunswick, and the J. Ellwood Lee Company, of Conshohocken, the latter firm have transferred all their rights in the well-known Syracuse and J.P. Suspensory Bandages to Messrs. Johnson & Johnson. For something like a quarter of a century

Messrs. H. C. QUELCH & CO.

4 LUDGATE SQUARE, LONDON, E.C.

have been recognised as the sole sellers of the Syracuse Bandages, and Messrs. Johnson & Johnson are anxious that no alteration should be made with regard to this, but as Messrs. John Timpson & Company, Limited, are the Agents for all the products of Messrs. Johnson and Johnson, and as all Bandages will in future be branded as manufactured by this latter firm, it is possible that Messrs. John Timpson & Company, Limited, may to some extent become identified with these goods. Therefore, to facilitate matters and prevent inconvenience to purchasers, arrangements have been made whereby orders given to Messrs. John Timpson & Company, Limited, for the Syracuse Bandages will be executed and invoiced by **Messrs. H. C. QUELCH & COMPANY.**

(Signed) H. C. QUELCH & COMPANY.

4 Ludgate Square.

JOHN TIMPSON & COMPANY., Ltd.

LOFTHOUSE & SALTMER, Wholesale and Export Drug Merchants, Manufacturing Chemists, HULL,

Offer the Trade the following valuable P.A.T.A. Protected lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the Country.

	PROTECTED RETAIL PRICE.	DOZEN.		PROTECTED RETAIL PRICE.	DOZEN.
LOSALL'S SALT (well advertised), tins ...	6d. ...	3/6 net.	LOSALL'S ASTHMA REMEDY. Very effective. Large profit ...	1/- ...	7/6 net.
" " " " bottles	1/- ...	7/- "	MALTED FOOD. Usual 1/- size, lever lid tins. Buyer's name and address printed free on 3 dozens. Special design label, name and address, on gross orders if desired ...	— ...	4/6 "
LOSALL'S MILK FOOD, oblong tins, 1/- size. Ideal Food for children and adults	6d. ...	5/6 "	LOSALL'S BALL ROOM FLOOR POLISH. Sells well. Big profit ...	1/- ...	7/- "
FINEST HYGIENIC FIRST MILK FOOD "Crown Brand," specially adapted for infants from birth to 3 or 4 months, tins 1/3 ...	1/- ...	7/6 "			

Chemists taking up the above really valuable, large profit-yielding lines, will find them an important adjunct to their business.

London Agents: F. NEWBERRY & SONS.

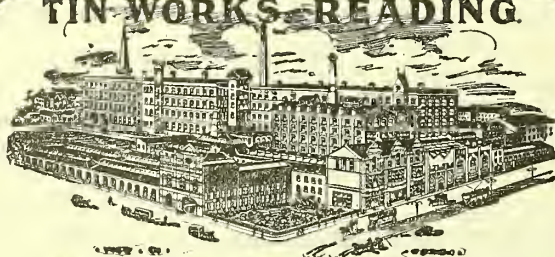
If you want close up-to-date Quotations for superior and approved Counter Specialties, and for Pure Drugs, Chemicals or Pharmaceutical Preparations, don't fail to write to

LOFTHOUSE & SALTMER, Wholesale Druggists, HULL

HUNTLEY, BOORNE & STEVENS, LTD

TIN WORKS, READING.

**COLOR
PRINTERS
ON TIN.**



MAKERS OF HIGH-CLASS.
DECORATED & PLAIN TIN BOXES,
& SPECIALITIES FOR CHEMISTS.

Quotations to samples
or descriptions.

CORRESPONDENCE INVITED.

Telegrams
"tinworks" Reading. National Telephone, 20.



12/- and 20/- per doz.



3/9 and 7/- per doz.



3/9 and 7/- per doz.



3/9 and 7/- per doz.



3/9 and 7/- per doz.



3/9 and 7/- per doz.



3/9 and 7/- per doz.



3/9 per doz.



MAW'S SUPERIOR TOOTH PASTES

In Earthenware Pots
with Burnt-in Labels.

SPECIAL QUOTATIONS FOR QUANTITIES.

SHOW CARDS.

S. MAW, SON & SONS, 7-12 Aldersgate Street, **LONDON, E.C.**

Telegrams: "ELEVEN LONDON."

Telephone No.: 3230 LONDON WALL (4 lines).

Samuel O'Neill & Sons, Ltd.

CASTLETON, Near MANCHESTER.

MAKERS OF

**TOILET
ROLLS.**Patentees and Makers of Paper Tubes for
Flax, Cotton, Woollen, Worsted & Silk Spinners,
Winders, &c.Add a new source of income
to your business by taking up**Laurence's**

ONE-SOLUTION

Hair Dyein nine shades — Raven Black, Black, Dark
Brown, Brown, Medium Brown, Light Brown,
Golden Brown, Auburn and Chestnut.**THE BEST ON THE MARKET.****ABSOLUTELY RELIABLE.**

Shows over 100 per cent. profit.

Can be supplied under Chemist's own title if
preferred, and exclusive design of carton and
label reserved in any one town.

Write at once for particulars to—

C. R. HARKER, STAGG & MORGANDevon Wharf, Emmott Street, **LTD.****MILE END, LONDON. E.****TRY IT IN YOUR BATH**

BY APPOINTMENT



TO H.M. THE KING.

SCRUBB'S AMMONIA
MARVELLOUS PREPARATIONRefreshing as a Turkish Bath. Invaluable for Toilet Purposes.
Splendid Cleansing Preparation for the Hair. Removes Stains and Grease Spots from Clothing.
Allays the Irritation caused by Mosquito Bites. Invigorating in Hot Climates.
Restores the Colour to Carpets. Cleans Plate and Jewellery. Softens Hard Water.

Of all Chemists, Etc. Price 1s. per Bottle.

SCRUBB & CO., LTD., GUILDFORD STREET, LONDON, S.E.**NEWBRO'S HERPICIDE**

The ORIGINAL remedy that kills the dandruff germ.

This wonderful Hair-Saver acts by destroying the germ or microbe that
causes dandruff, itching scalp and falling hair, after which the hair resumes its
abundant growth and beauty as nature intended. Extraordinary results follow
the intelligent use of Herpicide. Sold in all civilised countries.Newbro's Herpicide is the most exquisite hair dressing in the world. Cooling
and comforting. It stops itching of the scalp almost instantly.

Manufactured by THE HERPICIDE COMPANY, Detroit, Michigan, U.S.A.

TRADE SUPPLIED BY

THE AMERICAN DRUG STORES THOMAS CHRISTY & COMPANY

Wholesale and Retail

C. BROOKS, M.P.S., Chemist and Druggist,
4 Northumberland Av., W.C.; Craven House,
Kingsway, W.C.; and 36 Cranbourn St., W.C.4, 10 & 12 Old Swan Lane,
Upper Thames Street, E.C.PRICES
Retail 4/- per bottle.
Wholesale 33/- per dozen.
in lots of 3 dozen, 5 % discount.



Dressing Combs.

Before placing your orders,
study list of undersigned,
and remember convenience
of getting small lots car-
riage paid with other goods,
————— and hence —————

NO DEAD STOCK.

*Get our prices and samples.
We can meet all competition.*

EVANS SONS LESCHER & WEBB
LIVERPOOL and LONDON.

LIMITED

Druggists' Sundries Department].

The Export Merchant Shippers' Issue

OF

"THE CHEMIST & DRUGGIST"

WILL BE PUBLISHED

ON MARCH 12th, 1910.

This Issue will have an extended circulation (in addition to our ordinary weekly circulation) among important shippers of Drugs, Chemicals, Perfumery, Toilet Articles, Patent Medicines, and other articles associated with Pharmacy.

It will afford an exceptional opportunity for firms connected with the trades named to popularise their products among foreign buyers and to ensure their particular manufactures
:: :: being specified in indents. :: ::

*In order to secure space in this issue advertisers are requested
to communicate without delay with*

The Publisher, "The Chemist & Druggist,"

42 CANNON STREET, LONDON, E.C.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this paper on Terms as below.

<p>Acid Acetylo-Salicyl, 56 lbs. @ 1/11 lb.; 7 lbs. @ 2/1 lb.; 1 lb. @ 2/3 lb.</p> <p>Acid Carbolic, 39/40; 56 lbs. @ 5d. lb.; 10-lb. Tins @ 5/- each; Detached Cryst. 8/- each; 36 1-lb. Bots. @ 8½d. lb.; Single Bots. 11d. lb.; Detached Cryst. 1 lb. @ 1/1 lb.; Orude Black, 45 Gall. Casks @ 10d. gall.; 1 Gall. Tins @ 1/6 each.</p> <p>" Citric Cryst., B.P. '85, 1 cwt. @ 1/4 lb.; 7 lbs. in Bags @ 1/6 lb.; powder ½d. lb. extra.</p> <p>Diethylbarbituric, 16 oz. @ 3/4- lb.; 1 oz. @ 2/6 oz.</p> <p>" Hydrobrom., dil., B.P., 6 lbs. @ 7d. lb.</p> <p>" Hydrocyan, P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1 oz. Vials @ 3/6 doz.</p> <p>" Oxalic Cryst., 6 cwt. @ 3½d. lb.; 1 cwt. @ 3½d. lb.; 14 lbs. @ 3½d. lb.</p> <p>" Phosph. Dil., B.P., 8 lbs. @ 4½d. lb.</p> <p>Salicyl. pulv., 7 lbs. @ 1/1 lb.; phys. pure 1 lb. @ 3/- lb.</p> <p>" Sulphur, Ooml., cases, 4-2 gal. jars, 17/- each; 20 cases @ 16/- each.</p> <p>" Sulph. Aromat., B.P., 5 lbs. @ 3/8 lb.</p> <p>" Tart., cryst. or pulv., B.P. 1885, 1 cwt. @ 9½d. lb.; 7 lbs. @ 10½d. lb.; parv. ½d. lb. extra.</p> <p>Adeps Laues B.P. Anhydrous, 2 cwt. @ 52/6 cwt.; Hydrous @ 49/- cwt.; 1 cwt. @ 2/- cwt., 28 lbs. @ 5/- cwt., 14 lbs. @ 8/- cwt., 7 lbs. @ 12/- cwt. extra.</p> <p>Aloes, Socot., 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/5 lb.</p> <p>Ammon. Carb. lamp, 3 cwt. @ 3½d. lb.; 28 lbs. @ 4d. lb.; 7 lbs. @ 5d. lb.; powder, ½d. lb. extra.</p>	<p>Ext. Malti o. Ol. Jecoris, 10 lbs. @ 5½d. lb.</p> <p>"Ext. Nuclei Vom. Liq. B.P., 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.; solid, 4½ lb. extra.</p> <p>Ferri Ammon. Cit., P.B., 28 lbs. @ 1/4½ lb.; 7 lbs. @ 1/7 lb.</p> <p>Ferri et Quininae Cit., P.B.; 500 ozs. @ 3d. oz.; 100 ozs. @ 3½d. oz.; 25 ozs. @ 3½d. oz.</p> <p>Ferrum Redact. 80%, 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb. [5/3 lb.]</p> <p>Fol. Hyoscyam. Bien. B.P., 7 lbs. @ 5/6 lb.; pulv. Fol. Sennæ Tinnev. 3½ cwt. @ 2½d. lb.; 1 cwt. @ 3½d. lb.; 7 lbs. @ 3½d. lb.; English Ground, 1 cwt. @ 6½d. lb.; 66 lbs. @ 6d. lb.; 7 lbs. @ 7d. lb.</p> <p>Formaldehyde, 40%, 132-lb. Carboys @ 52/- each. 7 lbs. @ 7½d. lb.</p> <p>Glycerin, Opt., D.D., 1-260 P.B., 1 cwt. @ 99/- cwt.; 66 lbs. @ 100/- cwt.; 12 lbs. @ 1/1½ lb.</p> <p>Hexamethylenetetramine, 7 lbs. @ 2/- lb.; 1 lb. @ 2/3 lb.</p> <p>Honey, Jamaica, 3½ cwt. @ 36/- cwt.; 28 lbs. @ 47/- cwt.; Californian, 66 lbs. @ 56/- cwt.; 7 lbs. @ 8d. lb.</p> <p>"Inf. Aurant. Oono., 1 to 7, 6 lbs. @ 1/1 lb.</p> <p>" Aurant. Comp. Oono., 1 to 7, 6 lbs. @ 1/3 lb.</p> <p>" Buchu Oono., 1 to 7, 6 lbs. @ 1/5 lb.</p> <p>" Calumbe Oono., 1 to 7, 6 lbs. @ 11d. lb.</p> <p>" Caryoph. Oono., 1 to 7, 6 lbs. @ 11d. lb.</p> <p>" Oascarilla Oono., 1 to 7, 6 lbs. @ 1/2 lb.</p> <p>" Cinchona Acid, 1 to 7, 6 lbs. @ 1/7 lb.</p> <p>" Gentiana Oono., 1 to 7, 6 lbs. @ 11d. lb.</p> <p>" Quassia Oono., 1 to 7, 6 lbs. @ 9d. lb.</p> <p>" Rhei Oono., 1 to 7, 6 lbs. @ 1/5 lb.</p> <p>" Rosæ Acid, Oono., 1 to 7, 6 lbs. @ 1/8 lb.</p> <p>" Senega Oono., 1 to 7, 6 lbs. @ 2/- lb.</p> <p>" Valerian Oono., 1 to 7, 6 lbs. @ 1/3 lb.</p>	<p>Soda Salicyl. Pulv., 7 lbs. @ 1/5 lb.; phys. pur. 28 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.</p> <p>"Spt. Aether Nit. P.B., 4½ lbs. @ 3/6 lb.; 1 lb. @ 3/9 lb.</p> <p>"Sp. Ammon. Aromat. P.B., 5 lbs. @ 2/8½ lb.</p> <p>"Spt. Chloroform, P.B., 5 lbs. @ 3/7 lb.</p> <p>Strychnia cryst. B.P., 25 ozs. @ 2/- oz.; 1 oz. @ 2/3 oz.; Hydrochlor. acid Sulphate, 2d. oz. less, 6d. lb.</p> <p>Sugar of Milk, B.P., 1 cwt. @ 44/- cwt.; 7 lbs. @ 5d. lb.</p> <p>Sulphonal P.B., 1 lb. @ 9/6 lb.</p> <p>"Syr. Aurant. P.B., 7 lbs. @ 9d. lb.</p> <p>"Syr. Easton P.B., 7 lbs. @ 1/- lb.</p> <p>" Ferri Iodid. P.B., 7 lbs. @ 1/1 lb.</p> <p>" Ferri Phosphat. Oo., 7 lbs. @ 5d. lb.</p> <p>" Hypophosph. Co. B.P.O., 7 lbs. @ 9d. lb.</p> <p>" Pruni Virg. B.P., 8 lbs. @ 7d. lb.</p> <p>" Rhamni, 7 lbs. @ 10d. lb.</p> <p>" Rhei P.B., 7 lbs. @ 7½d. lb.</p> <p>" Soillei P.B., 7 lbs. @ 4½d. lb.</p> <p>" Sennæ P.B., 7 lbs. @ 8d. lb.</p> <p>"Syr. Tolut. P.B., 7 lbs. @ 7d. lb.</p> <p>"Tinct. Aurantii Recens. B.P., 5 lbs. @ 3/6 lb.; Bond 8½d.</p> <p>"Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; Bond, 6½d.</p> <p>"Tinct. Benzoini, Comp., P.B., 5 lbs. @ 3/5 lb.; Bond, 8½d.</p> <p>"Tinct. Camph. Comp., P.B., 5 lbs. @ 2/5 lb.; Bond, 6½d.</p> <p>"Tinct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.</p> <p>"Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb.</p> <p>"Tinct. Card. Comp., P.B., 5 lbs. @ 2/6 lb.; bond, 6½d. lb.</p>
--	--	--

HYOSCYAMUS SANTONINE WOOL

<p>Ampli Pulv., 10 cwt. @ 12/3 cwt.; 2½ cwt. @ 12/9 cwt.; 1 cwt. @ 14/6 cwt.</p> <p>Bals. Copaiba, pure, 44 lbs. @ 1/11 lb.; 9 lbs. @ 2/2; 1 lb. @ 2/6.</p> <p>Bismuth, P.B. Carb., 14 lbs. @ 7/9 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.</p> <p>Camphor, English Flowers, "not artificial," 5 lbs. @ 1/10 lb.; ½ oz. 7 lbs. @ 1/11 lb.; ½ oz. 7 lbs. @ 2/3½ lb. Orude, good white, about 93% as imported, 140 lbs. @ 1/4 lb.; 10 lbs. @ 1/5 lb.</p> <p>Cetaceum: No. 1, fine white, 64 lbs. @ 1/3 lb.; 7 lbs. @ 1/4½ lb.; powder, 7 lbs. @ 1/10 lb.</p> <p>Chloral Hydras xt. B.P., 7 lbs. @ 4/2 lb.; 1 lb. @ 4/6 lb.</p> <p>Cocaine Hydrochlor. B.P., 25 ozs. @ 7/6 oz.; 4 ozs. @ 7/9 oz.; 1 oz. @ 8/- oz.</p> <p>Colocyth, Pulp, 2 cwt. bales @ 7d. lb.; 7 lbs. @ 10d. lb.</p> <p>Cream Tartar, 98% powder, 1 cwt. @ 74/- cwt.; 7 lbs. @ 9d. lb.</p> <p>Ess. Lemon, 12 lb. Copper @ 3/- lb.; 6 1-lb. Bots. @ 3/6 lb.; not guaranteed absolutely pure.</p> <p>"Ext. Belladonnae Liq. B.P., 5 lbs. @ 4/7 lb.; 1 lb. @ 5/- lb.; solid, 7 lbs. @ 2/7 lb.</p> <p>Ext. Cascara Sag. Liq., B.P., 10 lbs. @ 1/2 lb.</p> <p>"Ext. Ergot, Liq. P.B., 5 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.</p> <p>Ext. Filicis Liq. P.B., 9 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.</p> <p>Ext. Gent., P.B. Solid, 1 cwt. @ 8½d. lb.; 7 lbs. @ 9½d. lb.</p> <p>" Glycyrrh. Liq. B.P., 6 lbs. @ 1/4½ lb.</p> <p>" Hamamelis, Liq. P.B., 6 lbs. @ 3/5 lb.</p> <p>Ext. Hyoscyam. Solid, B.P., 3 lbs. @ 4/11 lb.; 1 lb. @ 5/3 lb.</p> <p>"Ext. Ipecac. Liq. P.B., 5 lbs. @ 10/6 lb.; 1 lb. @ 11/3 lb.</p>	<p>Lin. Camph. P.B., 40 lbs. @ 10½d. lb.; 9 lbs. @ 11½d. lb.</p> <p>Lin. Sapo Meth., 9 lbs. @ 7d. lb.</p> <p>Lin. Tereb. Acet. B.P., 9 lbs. @ 1/- lb.</p> <p>Linseed C. Oil, Crushed, 3 cwt. @ 17/- cwt.; 1 cwt. @ 17/- cwt.</p> <p>"Liq. Ammonii Acetatis Oono. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 10½d. lb.</p> <p>"Liq. Ammon. Aromat., 6 lbs. @ 9d. lb.</p> <p>" Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.</p> <p>" Arsenicatis B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.</p> <p>" Arsenii Hydrochlor. P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.</p> <p>" Bismuth. P.B., 6 lbs. @ 10½d. lb.</p> <p>" Copaiba Bucha et Cubeb, 5 lbs. @ 2/6 lb.; 1 lb. @ 3/10 lb.</p> <p>" Easton. P.B. 1-3, B.P., 1 lb. @ 3/- lb.</p> <p>" Ferri Dialysatus, 6 lbs. @ 7d. lb.</p> <p>" Ferri Iod. o.s. 1-7, 1 lb. @ 5/8 lb.</p> <p>Ol. Cocoa Nuclei, finest White, 80 lbs. @ 48/6 cwt.; 40 lbs. @ 6d. lb.</p> <p>Ol. Eucalypt., B.P., 1 cwt. @ 1/1 lb.; 28 lbs. @ 1/2 lb.; 9 lbs. @ 1/3 lb.</p> <p>Ol. Olivæ, P.B., Flav., 45 gall. Barrel @ 4/3 gall.; 2 galls. @ 5/3 gall.</p> <p>Ol. pulgii B.P., 5 lbs. @ 7/6; 1 lb. @ 6/- lb.</p> <p>Ol. Santal. Flav. Ang., B.P., 5 lbs. @ 10/1 lb.; 1 lb. @ 10/6 lb.</p> <p>Opium Turc. B.P., 14 lbs. @ 17/6 lb.; 3 lbs. @ 18/- lb.; 1 lb. @ 18/6 lb.; powder, 6d. lb. extra.</p> <p>Quinina Sulph. B.P., 100 oz. @ 6½d. lb.; 25 oz. @ 7½d. lb.; 10 oz. @ 8d. lb.</p> <p>Santoninum, P.B., 7 lbs. @ 35/6 lb.; 1 lb. @ 33/6 lb.</p> <p>Shellac (Orange), 1½ cwt. @ 72/- cwt.; 7 lbs. @ 10d. lb.; 1 lb. @ 1/2 lb.</p> <p>Sodii Bromid. P.B., 1 cwt. @ 1/0½ lb.; 7 lbs. @ 3/- lb.</p> <p>Soda Cit., B.P., 3 lbs. @ 1/10 lb.</p> <p>Soda Hyposulphite, pea cryst., 1 cwt. @ 8/6 cwt.</p>	<p>"Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 6½d. lb.</p> <p>"Tinct. Chlorof. o. Morph. Comp., B.P., 1885, 5 lbs. @ 1/11 lb.; bond, 1/5½ lb.</p> <p>"Tinct. Cinchoo. Comp., B.P., 5 lbs. @ 3/4 lb.; bond, 10½d. lb.</p> <p>"Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb.</p> <p>"Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb.</p> <p>"Tinct. Gelsem., B.P., 5 lbs. @ 2/10 lb.; Bond, 6½d.</p> <p>"Tinct. Gentiana Comp., B.P., 5 lbs. @ 1/11½ lb.; bond, 6½d. lb.</p> <p>"Tinct. Hyoscyami, B.P., 5 lbs. @ 2/5 lb.; bond, 6½d. lb.</p> <p>"Tinct. Iodi, B.P., 5 lbs. @ 3/11 lb.; bond, 1/1½ lb.; decolor, 5 lbs. @ 4/3 lb.; bond, 1/0½.</p> <p>"Tinct. Lavandula Comp., B.P., 5 lbs. @ 3/10 lb. bond, 7½d. lb.</p> <p>"Tinct. Myrrhæ, B.P., 5 lbs. @ 3/9 lb.; bond, 9½d. lb.</p> <p>"Tinct. Nuclei Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb.</p> <p>"Tinct. Opii, B.P., 5 lbs. @ 3/3 lb.; bond, 2/- lb.</p> <p>"Tinct. Quinae Amm., B.P., 5 lbs. @ 2/6 lb.; bond, 11d. lb.</p> <p>"Tinct. Rhei Oo., B.P., 5 lbs. @ 2/2 lb.; bond, 8d. lb.</p> <p>"Tinct. Scilla, B.P., 5 lbs. @ 2/6 lb.; Bond, 7½d.</p> <p>"Tinct. Senegæ, P.B., 5 lbs. @ 3/1 lb.; bond, 1/3½ lb.</p> <p>"Tinct. Strophanth., P.B., 5 lbs. @ 3/5 lb.; bond, 8½d. lb.</p> <p>"Tinct. Valeriana, 5 lbs. @ 2/8 lb.; bond, 6d. lb.</p> <p>Wool, Cotton, Bleached Absorbent 1 lb. rolls, 1 cwt. @ 7d. lb.; 56 lbs. @ 7½ lb.; 28 lbs. @ 8d. lb.</p>
--	--	---

*Minimum quantity at these prices, Home Trade, 8 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted.

NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers.

Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Office: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

FRED^K. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES: Cums Arabic and Tragacanth as imported or finely powdered—Dextrine, Camomiles, Honey. Waxes of all kinds for Boot Polishes, &c.

RUBBER STAMPSC. D. RICHFORD,
8 & 9 Snow Hill,
LONDON, E.C.CHEMISTS' STAMPS,
SEALS AND STENCILS
A SPECIALITY

Full Illustrated Lists Free. Special Terms to Chemists.

HOT WATER BOTTLES

"ISDAMA" BRAND.

10 x 8	4/1	12 x 10	5/3
12 x 6	4/-	14 x 8	5/-
12 x 8	4/5	14 x 10	5/11

BEST BRITISH HEAVY MAKE.

The GALEN MANUFACTURING CO., LIMITED,
Wilson Street, NEW CROSS, LONDON, S.E.**THE RAT WAR!!!****FARMER'S "BAITED" PHOSPHOR PASTE**Sells well. Good Profits. **TO THE FRONT.** Mixed perfectly by special process.
FULL PRICES, viz.:—8d., 6d., 1s., obtained at 1s. 5d., 2s. 10d., 5s. 8d. dozen.
ONCE USED, ALWAYS.AGENTS: May, Roberts & Co., Barclays, Edwards, Sangers, Butler & Crispe,
W. Sutton & Co., Hovendens, Burgoyne, Burbridges, & Evans Sons Lescher &
Webb. Sole Proprietors—

F. FARMER & CO., Works 1a College Lane, Homerton, London, N.E. (for Home & Export).

DIABETES

G. VAN ABBOTT & SONS, London, S.E.

Manufacture all foods for above.

Established 1859.

Tel. 17018 Central.

Telegraphic Address: "Glutens London."

Dr. Stedman's Teething Powders

1 1/2 size	2/9	4/6	11/-
6/6 doz.	18/- doz.	34/- doz.	120/- doz.

Discount 5 per cent. on £10 worth for cash.

Showcards on Application.

CUM LANCET

TRADE MARK

125 NEW NORTH ROAD, LONDON, E.C.

DentistryFOR DENTISTS AND CHEMISTS REQUIRING
RELIABLE WORKMANSHIP.Most Perfect Workmanship. Best Materials, and Artistic Finish Guaranteed.
My Assistants are the pick of the London Dental Mechanics.Price List of **A. G. FENTIMAN,** 42 Bishopsgate Without,
LONDON, E.C.

Telegrams: FENTIDENT LONDON. Telephone: London Wall, 7.

TOBACCOS! CIGARS! CIGARETTES!Every known Brand at Manufacturer's own List
Prices. Endless variety of Tobacconists' Fancy
Goods & Shop Fittings. The Trade only supplied.
Opening orders a Speciality. Send for Price List.SINGLETON & COLE, Ltd., Cannon Street, BIRMINGHAM,
AND BRANCHES.**PRECIPITATED CHALK.**

EXTRA LIGHT AND ALL GRADES TO SUIT EVERY PURPOSE.

CHEAPEST SELLERS IN THE MARKET.

AUG. LEVERMORE & CO., 8, 9 & 10, Great St. Helen's,
LONDON, E.C.

TELEGRAMS: "LEVERMORE, LONDON." TELEPHONE: 4613 CENTRAL

ARTIFICIAL TEETH

FROM MODELS OR IMPRESSIONS.

FRED. H. BARKER, *Dentist to the Profession,*

The only address: 4 Town Hall Street, GRIMSBY.

Revised Price List free.

Established 1882.

Dog, Cat, & other Veterinary Medicines

WILL INCREASE YOUR SALES.

LIBERAL TERMS.

HIGH CLASS GOODS.

Books on Disease, Show Cards and Pedigree Forms sent free.

THE "WILSON" VET. MED. MANUFACTURING CO., LTD.
ASHFORD, MIDDLESEX, ENGLAND.**HOT WATER BOTTLES**Only the finest Rubber and best English Workmanship employed in
their manufacture. Satisfaction guaranteed.

PRICES LOW.

QUALITY HIGH.

F. SCHUTZE & CO.

Black Bull Works, Caledonian Market, London, N.

TO LET.

GREATEST & LATEST DISCOVERY IN MEDICINE.

DR. HOFFMAN'S Celebrated RHEUMATIC POWDERS.**ACT LIKE A MIRACLE.** Will cure permanently all forms of Rheumatism,
Sciatica, Gout, Neuralgia, Excess of Uric Acid, &c. Endorsed by the leading
Medical Profession and general public in all parts of the world. Contain no
injuriously drugs, poison, or any kind of narcotic.

Price 9/- per doz.; Retail, 11/1. Large size, 28/- per doz.; Retail, 2/9.

Wholesale Agents: Butler & Crispe, W. Edwards & Son, Barclay & Sons,
Sangers, May, Roberts & Co., &c.

Prepared only by INTERNATIONAL CHEM. CO., 324 Caledonian Rd., London.

"KAVASAN" CAPSULES

(SANTAL COMPOUND and KAVA-KAVA).

36 Capsules in box, 18/- per dozen boxes. 28/- per 1,000.
24 " " 12/- " " " 3/6 per 100.

Name and address on one dozen boxes.

Samples (12 Capsules) on application.

MAWSON & Co., 213 High Rd., STREATHAM, LONDON, S.W.

KRUSCHEN SALTS,produced by evaporation from the celebrated mineral springs. A perfect diuretic
aperient for the treatment of Rheumatism, Gout, Constipation and Inactive Livers.Liebig's Analysis: Soda Sulph., Soda Chlorid., Soda Phosph.
Magnes. Sulph., Magnes. Chlorid., Potas. Sulph., Potas. Chlorid.

Minimum Retail Price, 1/6.

Wholesale, 13/6 per doz. net.

Carriage Paid. P.A.T.A. conditions.

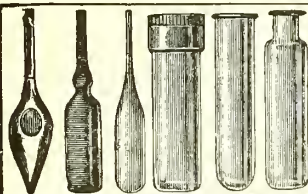
E. GRIFFITHS HUGHES, 17 Deansgate, Manchester.

DENTISTRY

(Mechanical.)

**EXPERT WORKMANSHIP. PROMPT SERVICE.
POPULAR PRICES. GUARANTEED MATERIALS.****"Dentistry for Chemists" post free. "Everyday Dentistry," 3/6.
F. C. WARDALE & CO., 132 High Street North, East Ham.
Tel. No. East Ham 174. Tel. Address "Eladraw London."****First - Class Mechanical Dentistry.**

Reliable workmanship. Popular prices. Moderate charges for gold, D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M.Co. Teeth and Rubber guaranteed. Punctuality strictly observed. List free. Trial case solicited. Gold and D.A. work a speciality. Special cheap rates for show case pieces. 16 years' experience of first-class mechanical dentistry.

E. C. HALDER, 46 New Grosse Road, LONDON, S.E.**JOS. ZAHRADNIK,**Glass-ware manufactory Miletin,
BOHEMIA, AUSTRIA.

Glass-packings for chemical-pharmaceutical purposes. All surgical and medical necessities in glass for hygiene and the treatment of the sick. Chemical-physical glass instruments of all kinds.

**ECSÖLENT COMPOUND
ECSÖLENT POWDER
ECSÖLENT SOAP**

WHOLESALE FROM

**Ecsölent Compounds, Limited,
Saracen Buildings, Snow Hill, LONDON, E.C.****TO WHOLESALE BUYERS & SHIPPING MERCHANTS ONLY.
FOR ALL KINDS OF****CAPSULES & PERLES.**

Hand-made or Machine-made, "TYE'S" will ensure purity of contents and best finish. Specially prepared to suit all climates.

**JOHN TYE & SON — Manufacturing Chemists, —
(Established 1845), PACKINGTON STREET, LONDON, N.****RUBBER****HOT WATER BOTTLES (Best English make), AIR CUSHIONS
URINALS, SPONGES, &c., &c.****A House to note is: JAMES TOMPKINS, Ltd.
RUBBER MANUFACTURERS, 386 City Road, LONDON, E.C.**

ESTABLISHED 32 YEARS. CORRESPONDENCE INVITED

DENTISTRY FOR DENTISTS

by A. J. FENTIMAN, Dentist (Fentiman & Co.).

Practical Dentists in Gold, D.A., Tubes, Crowns, Gum Sections, Vulcanite, Celluloid, Strengthened Rubber, Reg. Cases (Angles), Obturators, &c.

Telephone: 9977 London Wall. Telegrams: "Lullingly London."
Postal—East Smithfield, Tower Bridge. Established 1835.**NO OTHER ADDRESS.****DENTISTRY****First-Class Mechanical, from Models or Impressions.**

Lowest Prices. Price List Free. Correspondence Solicited.

**H. E. CULLWICK, Dental Manufacturer,
163 NORTH STREET, WOLVERHAMPTON.****TO APPRENTICES, JUNIORS, &c.**

If you wish to pass the preliminary quickly and with little trouble, write to Mr. CHARLES HARKER, who will coach you by post; thorough systematic teaching; numerous successes in 3 and 6 months; special attention given to those of neglected education. 85 per cent. recent successes. Terms very moderate.

CHARLES HARKER, 239 Chapter Rd., Cricklewood, London, N.W.**SO-CALLED "DIABETIC" FOODS ARE POISONOUS TO
DIABETIC PATIENTS, UNLESS "STARCHLESS."**Obtain **STARCHLESS****DIABETIC FOODS**From **CALLARD & CO., 74 RECENT STREET, LONDON.****LYLA Head Ointment** FOR CHILDREN'S HAIR
(LYLE'S RED CROSS).

One of the best Mothers' Helps on the Market. Destroys all Vermin in the Hair. Most satisfactory and reliable.

Highly recommended. Prices 4d. and 2d.

Sold by Chemists only. Excellent profit to Retailers.

Terms (Wholesale and Retail) from the Proprietors:—

LYLE & CO., Wholesale Chemists, BERWICK-ON-TWEED.**Glasscine Labels**Sample and
Specimen
Sheet,
on application**for SHOP ROUNDS, &c.**A GREAT IMPROVEMENT ON GLASS RECESS LABELS
SMART ECONOMICAL, INEXPENSIVE.**THOS. CHRISTY & CO Old Swan Lane, London, E.C.****DALLOFF TEA****SPECIFIC for CORPULENCY.**Price 4/6 and 8/6 per Packet. Liberal Discounts to Chemists.
OF ALL WHOLESALE HOUSES.

Sole Agency for Great Britain, Ireland, and Colonies:

A. S. WEHNER & CO.**BATH HOUSE,****57-60 Holborn Viaduct, London, E.C.**

ESTABLISHED 1772.

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care in the greatest chemical purity by

MESSRS. THOMAS & WILLIAM HENRY, 11 EAST STREET, ST. PETER'S, MANCHESTER.

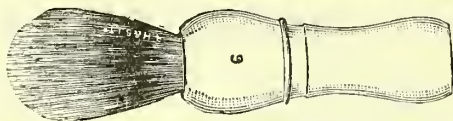
And is sold in bottles, authenticated by a Government Stamp bearing their name. Trade Mark, Henry's Calcined Magnesia.

PRICE 4s. 6d. or 2s. 9d.**NEW YORK—Messrs. SCHIEFFELIN & CO., William Street.****PARIS—Messrs. ROBERTS & CO., 5 Rue de la Paix.**

HOVENDEN'S SHAVING BRUSHES

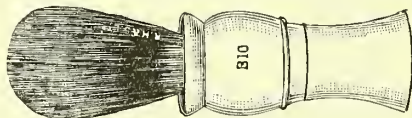
BADGER HAIR—Best Quality.

Bone
Broom
Pattern.



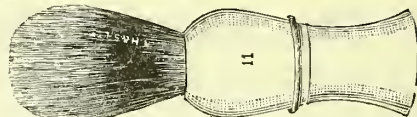
No.		s.	d.	No.		s.	d.
86	... .. per doz.	16	6	7	... .. per doz.	27	0
5	... .. "	20	0	8	... .. "	33	0
6	... .. "	23	0				

Bone Hat
Pattern,
with Cup.



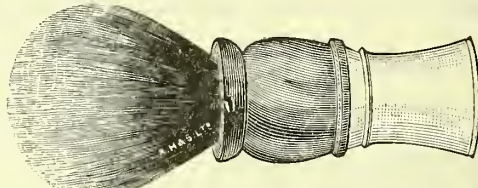
B 9	... .. per doz.	21	0	B 11	... .. per doz.	28	0
B 10	... .. "	24	0	B 12	... .. "	34	0

Bone Hat
Pattern.

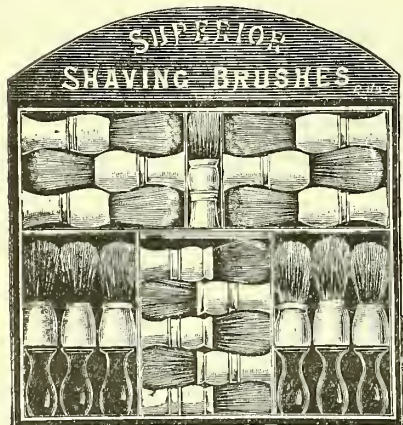


No.		s.	d.	No.		s.	d.
9	... .. per doz.	20	0	11	... .. per doz.	27	0
10	... .. "	23	0	12	... .. "	33	10

Horn
Sockets,
Bone
Handles.



3	... .. per doz.	25	0	6	... .. per doz.	40	0
4	... .. "	30	0	7	... .. "	46	0
5	... .. "	36	0	8	... .. "	51	0

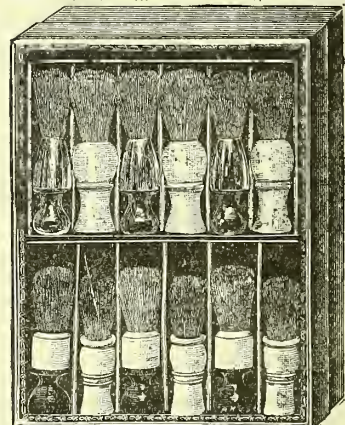


6d. LINE.

In attractive Glass Top Pale Blue Show Box, containing 1 dozen assorted Shaving Brushes, 4/- per box.

Ditto, containing 1 doz. assorted 1/- Shaving Brushes, 8/- per box. Each box contains a good assortment of patterns (as illustration on right.)

Hovenden's Glass Top Case, containing 1 doz. 1/- Brushes (assorted), and $\frac{1}{2}$ doz. 1/6 (as illustration on left), 14/6 complete.



SHOW STAND (Rega. No. 543,005).



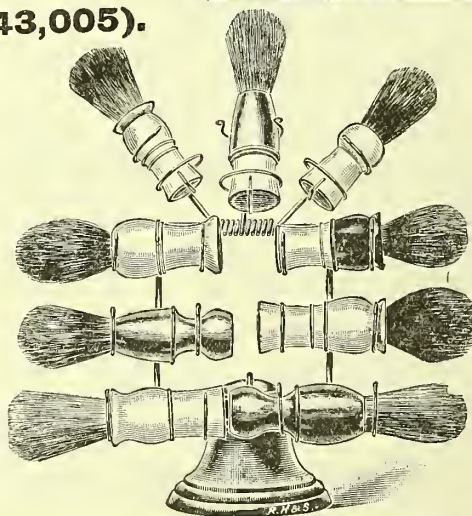
For effectively displaying 9 Brushes, and can be supplied with 1/- Brushes, from 7/6 complete.

With better quality Brushes, at 10/6, 12/6, 15/-, 18/-, and 21/- complete.

Clips for window shelf, to hold 3 Brushes, 2/9 complete.

Empty Stands for 9 Brushes, 1/3 each.

" Clips " 3 " -/9 "



R. HOVENDEN & SONS, Ltd., 85, 89, 91, 93 & 95 City Road, FINSBURY, E.C.

Telephone No. 1648 London Wall.

29, 30, 31, 32 & 33 BERNERS STREET, OXFORD STREET, W. (Tel. No. 3021 Gerrard—2 lines), LONDON.

TRADE
MARK

'WELLCOME' BRAND CHLOROFORM

The Ideal Anæsthetic

Exceptionally pure. Free from empyreumatic substances and products of decomposition which irritate the respiratory tract and often cause dangerous cardiac depression.

Contains that small, yet definite, amount of Ethyl Chloride which is so beneficial in the induction of chloroform anaesthesia.

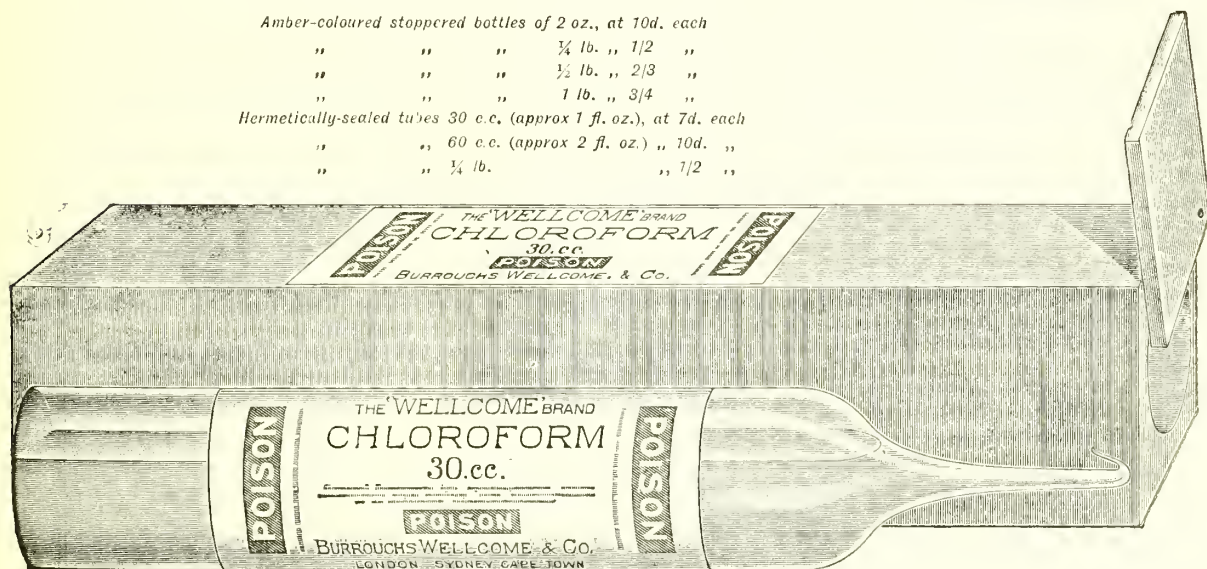
PRICES AND PACKINGS

'Wellcome' Brand Chloroform is supplied to Chemists as follows:—

Amber-coloured stoppered bottles of 2 oz., at 10d. each	
" " " ¼ lb. " 1/2 "	
" " " ½ lb. " 2/3 "	
" " " 1 lb. " 3/4 "	
Hermetically-sealed tubes 30 c.c. (approx 1 fl. oz.), at 7d. each	
" " 60 c.c. (approx 2 fl. oz.) " 10d. "	
" " ¼ lb. " 1/2 "	



Facsimile of ¼ lb. drop-bottle
Actual size



'Wellcome' Brand Chloroform, 30 c.c., in hermetically-sealed tube. Length 5¼ in.

BURROUGHS WELLCOME & CO., LONDON (ENG.)

NEW YORK MONTREAL SYDNEY CAPE TOWN SHANGHAI

Warrick

'FLEXOIDS'

Brothers.

THYMOL TOOTH PASTE

TO RETAIL AT 6d. Your Own Name on 3 doz.
(MINIMUM RETAIL PRICE.)

YOUR CUSTOMERS
will like it better than
any shilling American
Proprietary Tooth Paste.
Not only do they like
the Tooth Paste better
but they like the price
better.

SEND 2 STAMPS
for postage of a free
sample,

THEN YOU CAN
TEST THE
ACCURACY OF OUR
STATEMENT

N.B.—We have two styles of
Labels, Mauve & Gold and Red
& Blue. The Red & Blue Labels
are always sent unless the Mauve
Label is specified.



PRICE

3/6

PER DOZEN.

Carriage Paid.

12 DOZEN AT

3/-

PER DOZEN.

IN CARTONS, 6d. per dozen
extra.

The STANDARD TABLET & PILL Co., Hove



A Weekly Journal of the Chemical and Drug Trades
and of
British Pharmacists throughout the Empire.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by seventeen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

Subscription Rates.

Ten shillings a year in advance, post free to any part of the world, including a copy of *The Chemists' and Druggists' Diary* next published. Subscriptions may begin any month. Single copy, 6d.; Summer or Winter Number, 1s. *Diary*, 8s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12-60 francs, franco.

Jährlicher Abonnementspreis: die Zeitung einmal wöchentlich, und der Notizkalender einmal im Jahre, 10 Mark, postfrei.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año, 12-60 pesetas, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.

Telegrams: "Chemicus London." Telephone 852 Bank (two lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: Vol. LXXVI., No. 8 (Series No. 1569).

	PAGE		PAGE
Adulterated Peppermint Oil	293	Festivities	297
Agri - Horticultural Licences	280	French News	279
American Letter	280	Gazette	282
Bankruptcy Reports	282	Information Department	288
Births	283	Irish News	278
Books, New	299	Legal Reports	281
Business Changes	284	London Chamber of Commerce	303
Chemists' Windows	285	Marriages	283
Coming Events <i>Col. Supp.</i>		New Companies	282
Company News	283	Observations and Reflections	289
Corner for Students <i>Col. Supp.</i>		Personalities	284
Correspondence: Letters	304	Poisonings	286
Legal Queries	305	Practical Notes and Formulae	293
Miscellaneous Inquiries	306	Prescription Problem	299
Deaths	283	Properties of Sand	288
Editorial Articles: The Possessive Case	290	Retrospect	306
London Dock Rates	291	Sandalwood Oil	293
University College Laboratories	292	Scots News	278
Notes	292	South African News	279
English News	276	Trade Notes	285
		Trade Report	300
		Westminster Wisdom	287
		Wills, Recent	284
		Winter Session of Chemists' Associations	294

IS BUSINESS BAD?

We sometimes hear complaints regarding the slowness of the home trade. Manufacturers and wholesalers say that competition is keener and the demand is not so large as it used to be. This may be so in some cases, and it may apply in some degree to those connected with chemical industry, the drug-trade, pharmacy, and allied branches. In order to bring up the balance of trade in such cases, an increased export business is indicated. British exports are still growing, and last month showed a phenomenal increase of six millions sterling on manufactured products alone. The

Export Merchant Shippers' Issue

of THE CHEMIST AND DRUGGIST, to be published on March 12 next, is one of the strongest "pullers" for business of this kind. It keeps merchant shippers and exporters in touch as to sources of supply, and facilitates filling of indents from buyers abroad. Firms who have not yet secured space in the Issue are urged to do so by communicating at once with the Publisher, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

Summary of this Issue.

The more notable items only are dealt with.

Articles and Communications.

Mr. E. J. Parry has found a new adulterant in peppermint oil (p. 293).

Mr. George P. Pond defends the use of common salt in a forceful letter (p. 304).

Diverse opinions on advertisement prescriptions are expressed by correspondence (see pp. 304-5).

An appeal is being made for 70,000l. to build a new chemical laboratory for London University College (p. 297).

This week's observations and reflections by Xrayser II. are on the sophistication of essential oils, oil of wintergreen, the ethics of advertising, and the chemist in fiction (p. 289).

Dr. Dobbin sets for pharmacy students observation exercises, which will count in the tournament competition, but book prizes will also be awarded in respect to them. The exercises are printed in the Coloured Supplement.

The return of Sir R. B. Finlay, K.C., to Parliament recalls his services to chemists in 1888, when he gave us the "opinion" that possessive-case names do not make non-proprietary names liable to duty. The first editorial article is on the subject (p. 290).

Following up the suggestions of Messrs. Hill and Umney regarding revision of the B.P. essential-oil monographs, we publish a long series of sandalwood-oil constants determined by Messrs. Stafford Allen & Sons (p. 293), and comments by Messrs. Miller, of Mitcham, and Mr. Simmons (p. 304).

The Week's News.

An interesting lecture on "Sand," by Mr. C. E. S. Phillips, is reported on p. 288.

Poisoning cases are exceptionally numerous and interesting this week. See the paragraphs on p. 286.

For using the title "Dentist," a Kingston-on-Thames practitioner has been fined 5l. under the Dentists Act (p. 281).

Madame Curie and a co-worker have isolated polonium in sufficient quantity to make about a six hundred and fortieth of a grain of salt (p. 278).

The Board of Customs and Excise have recovered in Birmingham fines from a retailer who sold dutiable medicines deficiently stamped and without a licence (p. 281).

James Boulton & Co. have failed in Bow County Court to recover from a provincial chemist payment for goods alleged to have been ordered at the Chemists' Exhibition (p. 281).

Parliament reassembled on Tuesday, and members of both Houses have been swearing fealty to the King. Our Parliamentary representative contributes items in regard to the Poisons and Pharmacy Act, quack medicines, Port of London dues, and the Shop Hours Bill. In the centre of the page we reproduce the peer-compounder cartoon from "Punch" (p. 287).

Trade and Market Matters.

Fifty years ago "very important changes" occurred in mercantile prospects for the reasons given in the extract from the *C. & D.* of February 15, 1860, reprinted on p. 306.

The Norwegian cod-fishing has so far proved very poor; this has given the cue to speculators, who have driven up prices rapidly, and the outlook is uncertain. An advance of this character quite early in the season calls for caution (p. 301).

Market price-changes are fairly numerous, including a decline in codeino and salts, castor oil, carnauba wax, copper sulphate, and red and white lead; saffron, thymol, oxalic acid, bergamot oil, lemon oil, cream of tartar, and benzols are firmer (p. 300).

In an official communication, the recently appointed Royal Commissioner to the Camera Agrumaria outlines the policy to be adopted in order to put the citrus-products market on a firm footing. The Government is to render financial aid if necessary (p. 303).

At a meeting of the Chemical-trade Section of the London Chamber of Commerce to consider the draft Provisional Order containing the schedule of port rates to be imposed by the Port of London Authority, it was agreed to press for *ad valorem* rates; failing that the schedule to be made absolutely complete. Also to urge for total exemption of rates on coastwise or export goods. To-day is the last day for submitting objections to the Board of Trade (p. 303 and p. 291).

English and Welsh News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

At the annual meeting of the Blackburn Tradesmen's Association, Mr. R. Lord Gifford, Ph.C., was elected to the committee.

A slight fire occurred on February 15 on the premises of Mr. J. W. Lasham, pharmaceutical chemist, South Street, Romford, due to the ignition of petrol, which had escaped from machinery.

A Liverpool labourer recovered, in the Sheriffs' Jury Court, Liverpool, on February 10, 45*l.* from Allan & Sons, Ltd., 13 Seymour Street, Liverpool, for unskilful extraction of seventeen teeth.

The contribution of the Colonial Office towards the pellagra inquiry was erroneously given in our last issue as 1,500*l.* instead of 150*l.*, and the latter sum is conditional upon 450*l.* being raised from other sources.

The accounts of the Leeds Industrial Co-operative Society, Limited, show that during the past half-year the sales in the drug department have increased by 287*l.* over the corresponding period in the previous year.

The annual report of the East Lancashire Infirmary shows that a sum of 346*l.* 5*s.* 6*d.* was spent last year in dressings, lint, and bandages, while drugs, cod-liver oil, and malt cost 399*l.* 4*s.* Other supplies required were: Surgical instruments, 134*l.* 13*s.* 7*d.*; disinfectants, 18*l.* 13*s.* 7*d.*; surgical sundries, 22*l.* 15*s.* 2*d.*; and X-ray and other apparatus, 37*l.* 3*s.* 7*d.*

Mr. James Vince, chemist and druggist, Cheapside, Lancaster, was called as an expert witness before the Lancaster Bench in reference to a powder which the police had found upon a burglar. Mr. Vince explained that it was composition powder, and not cayenne pepper, as the police supposed. He added that it might temporarily blind anyone into whose eyes it was thrown. The prisoner was committed to the Liverpool Assizes, where Mr. Vince is to give evidence against him.

The Royal College of Surgeons' committee appointed to consider the Anæsthetics Bill agrees with the General Medical Council's conclusions, with the exception of that relating to the administration of anæsthetics by duly qualified dental practitioners. The committee believe that it is not to the advantage of the public, or of the medical profession, that dentists should be debarred from administering nitrous-oxide gas and the other anæsthetics to be specified in the Act as employable by them.

A course of three lectures on "Tropical Hygiene" is being delivered, under the auspices of the London Chamber of Commerce, at Oxford Court, Cannon Street, London, E.C., by Professor W. J. Simpson, M.D. At the opening lecture on February 15 the lecturer appealed for help from merchants to enable the London School of Tropical Medicine to continue its work of training medical men in tropical hygiene. The second lecture will be given on February 22, and the final one on March 3.

At the annual meeting of the Ealing Cottage Hospital Lord George Hamilton, the chairman, who was also chairman of the Poor Law Commission, said the scheme for medical relief of the poor approved by the Commission was very much the same as had been tried by the Ealing Hospital Committee, viz., the establishment of medical provident dispensaries, to which all the lower classes should be invited to belong and inducements given to subscribe. In the annual report of the hospital committee the dispenser—Miss Bonner—was especially commended for the way in which she discharges her duties. The daily average of bottles of medicine dispensed is 108. The dispensary has recently been transferred to the new block of buildings.

The London doctor who by accident lost a quantity of radium bromide (*C. & D.*, February 12, p. 240) secured the ashes and consulted Professor Meldola about the recovery of the radium. He was referred to Mr. Thomas Tyrer, of Stratford, who has expert knowledge of the working of radio-active crude materials for the salts. Mr. Tyrer tested

the radio-activity of the ashes at the doctor's house and agreed with him that there was a considerable quantity of radium present. In view of the natural expectation of the doctor for a very full recovery of the 33 to 34 milligrams said to be present, Messrs. Tyrer & Co. are considering upon what equitable terms the recovery can be effected. Obviously radium salt containers must be linked to the owner by a chain.

Contracts.

City of London Guardians.—Coles & Co., for 100 yards of waterproof sheeting at 17*l.* 10*s.*

Plymouth Town Council.—The following tenders for annual supplies have been accepted: Corbyn, Stacey & Co., Ltd., drugs and chemicals for Borough Hospital, at 20 per cent. off Barron, Harveys & Co.'s list; Hall & Hamlyn, Ltd., for waterproof sheeting, at 10 per cent. off schedule prices; Western Pigment Co., Ltd., for disinfecting-powder, at 5 per cent. off schedule rates; Edward Cook & Co., Ltd., for soap, at per cwt.: carbolic (4 to 1*lb.*) at 30*s.* 6*d.*, carbolic (pure phenol) at 36*s.* 6*d.*, carbolic (1-*lb.* bar) at 30*s.*, transparent at 57*s.* 6*d.*, toilet (10 to 1*lb.*) at 57*s.* 6*d.*, toilet (8 to 1*lb.*) at 48*s.* 6*d.*, toilet (4 to 1*lb.*) at 48*s.* 6*d.* coal-tar at 57*s.* 6*d.*, scrubbing ("Primrose") 24*s.*; W. Gossage & Sons, Ltd., yellow soap at 20*s.* 3*d.*; Square & Co., Ltd., for scrubbing at 16*s.*; Heaton & Co., for soft soap, at 15*s.*; Jeyes' Sanitary Compounds Co., for disinfectant-fluids (sterile conditions, coefficient 20, and in presence of organic matter, coefficient 15) at 2*s.* 9*d.* per gal.; Sanitas Co., Ltd., for 20-per-cent. sanitary fluid, at 11½*d.* per gal., and 3-per-cent. sanitary fluid, at 10½*d.* per gal.

Birmingham Notes.

Moseley Parish Church having incurred heavy expense for enlargement, renovation, and decoration, handsome contributions came forth, among them one of 50*l.* from Mr. W. R. Hedges, Ph.C., Dale End, Birmingham.

A novel form of double-barrelled advertisement is appearing in King's Heath. On one side of a long and deep vertical board mounted on two wheels is a telling advertisement by Mr. Forder, Ph.C., and on the other side that of another kind of trader.

Messrs. Boots, at their New Street shop, have an interesting window-show, illustrative of their pine-oil remedy. Pines growing in miniature pots and an elongated bellows camera arrangement, which the street gazer looks down and finds an illumined picture of pines, etc.

During the Grocers' Exhibition at Bingley Hall, Mr. Joseph Lones, public analyst for Smethwick, delivered a lecture on "Preservatives in Food—from the standpoint of the public health." In the course of it he said that the Local Government Board might, after inquiry, make regulations prohibiting the use as a preservative of any substance specified in such regulations in the manufacture or preparation for sale of butter, margarine, or milk-blended butter, or for limiting the extent to which either might be used.

At a meeting of the creditors of Mr. E. Gascoyne, chemist and druggist, Moseley Village, Birmingham, held at the Grand Hotel, Birmingham, on February 10, a statement of affairs was presented showing liabilities 2,866*l.* 14*s.* 10*d.*, and net assets 991*l.* 14*s.* 6*d.*, leaving a deficiency of 1,875*l.* 0*s.* 4*d.* It was stated that the debtor commenced business at Moseley in 1903, but previous to this he had a business at Wolverhampton, which he left in 1894 and went to Nottingham to a business purchased by Mr. Pearce, his father-in-law. The latter venture resulted in an estimated loss of some 2,000*l.* He paid 756*l.* for the stock and fixtures at the Moseley shop and 225*l.* for the goodwill. No trading accounts or balance-sheets had been prepared, and the debtor's drawings had averaged 4*l.* per week. A resolution was unanimously passed that an offer of 10*s.* in the pound, payable in cash in fourteen days, be accepted, failing which the estate be put into bankruptcy.

Wine-licences.

At the recent Licensing Sessions at Leeds and Keighley, there were no new applications for chemists' wine-licences, and all the existing licences were renewed.

Medicated wine-licences have been granted to the following applicants:—

Mr. John Martindale Darling, chemist and druggist, Stanhope Road East, South Shields.

Mr. Gibson Teasdale, of Chilton Buildings, Bishop Auckland.

At the West Castle Ward, Brewster Sessions, Newcastle-on-Tyne, on February 9, an application for a medicated-wine licence on behalf of the Co-operative Stores at Cramlington village, was adjourned for a month.

At the Bradford Licensing Sessions an application for a wine-licence by Mr. John George Walker, chemist and druggist, 610 Manchester Road, was refused, but that by Mr. James W. Savage, of 4 Great Horton Road, was granted, subject to medicinal wines only being sold. The wine-licences held by other local chemists were all renewed except one, which will be considered at the adjourned sessions in March.

Sale of Food and Drugs Acts.

Twenty-one drug samples were analysed in Bethnal Green last year, all of which proved to be genuine.

Thirty-two samples of camphorated oil were taken for analysis in Leicestershire last quarter. All proved to be of standard strength.

The Southampton county analyst in his quarterly report certifies all the following samples as genuine: medicine by prescription, 12; pepper, 3; ground ginger, 3; arrowroot, 1; malt vinegar, 1; mustard, 1.

The Bucks county analyst reports that during the past quarter he examined forty-one samples, including six samples of Gregory's powder. The latter were the only drug samples taken, and all of them proved to be genuine.

The Berkshire analyst states in his quarterly report that the only drug found to be adulterated was a packet of seidlitz powder, which was sold as "penny drugs." The sample did not comply with the pharmacopœial standards.

The Camberwell analyst reports that two samples of eucalyptus oil and one sample of camphorated oil were analysed during last year. One of the samples of oil of eucalyptus did not conform to the requirements of the B.P. The vendor was fined 2*l.* and 17*s.* 6*d.* costs.

The Hertfordshire county analyst (Mr. A. E. Ekins, Ph.C., F.I.C.) reports having examined during the past quarter three samples of camphorated oil and one sample each of ground ginger, cream of tartar, compound liquorice powder, baking-powder, lime-water, mustard, arrowroot, vinegar, ammoniated tincture of quinine, ipecacuanha wine, and seidlitz powders. All of the above samples were genuine with the exception of one of mustard, which contained 15 per cent. of wheaten flour coloured with turmeric. The vendor was convicted but not fined.

The Kent County analyst reports that 52 samples of drugs were submitted to him during the quarter. Two samples of tincture of iodine and one of ammoniated tincture of quinine proved to be slightly below pharmacopœial strength. The following is the full list of drugs examined during the year: Seidlitz powder 37, cream of tartar 26, olive oil 23, liniment of camphor 16, tartaric acid 12, crushed linseed 11, glycerin 10, citrate of magnesia 9, citric acid 8, tincture of iodine 8 (2 adulterated), beeswax 7, ammoniated tincture of quinine 7 (1 adulterated), spirit of camphor 5, spirit of nitrous ether 5, liniment of iodine 1, tincture of rhubarb 1, quinine wine 1, paregoric 1.

The Local Government Board has forwarded a circular letter to the various local authorities concerning the working of the Sale of Food and Drugs Acts. The central authority request that all informal samples be included in the quarterly reports and separately distinguished, and if during 1909 any such samples have not been included in the analyst's quarterly reports, the Board desires that a statement regarding their nature and the result of their examination should be furnished. The Board also wishes to receive observations made by the analyst or the medical officer regarding the practice of examining informal samples, and statements regarding the use made of the information thus obtained.

A Chemist's First and Last Certificate.

At a meeting of the Mirfield (Yorks) Urban Council, on February 10, Mr. J. C. L. Rhodes, chemist and druggist, Easthorpe, Dr. Milne, and the parents of a child named Oldroyd attended with reference to an unnotified case of scarlet fever. The Clerk explained that Mr. Rhodes had given the child's mother a certificate stating that it was suffering from a skin affection. The child proved to be suffering from scarlet fever. Mr. Rhodes stated that the mother had visited his pharmacy without her infant son, who she said had a sore head. He made her up an ointment and also supplied a mixture for a cold. The mother then asked for a note for the schoolmaster, which he gave.—The Clerk: "Didn't you think that you should not have given the certificate?"—Mr. Rhodes: "It is the first one, and it will be the last." The Council considered that the explanation was satisfactory since the parent had acted in ignorance of the regulations.

Manchester Notes.

Measles and scarlet fever have been very prevalent in most parts of Manchester this last few weeks, but fortunately of a mild nature.

A deficit of 10,000*l.* on the past year's working is announced in the annual report of the New Royal Infirmary. More subscriptions are urgently needed.

Mr. Ernest Bryan (for three years head dispenser at Woolley's, Market Street, Manchester) has purchased the old established business of Wood & Pass, chemists, 25 Mill Street, Macclesfield.

The Chloroform Habit.

We briefly reported in our Supplement last week an inquest held by Mr. Troutbeck at Battersea regarding the death of Ernest Spencer (22), an insurance agent, from chloroform-poisoning. He had been addicted for four years to inhaling chloroform, and the following evidence was given in reply to questions by the Coroner:

James Davidson Walker, assistant at Parke's Drug-stores, Lavender Hill, S.W., said that he had known the deceased as a customer for eighteen months. For about a year he had purchased methylated chloroform, which was in Part 2 of the Poisons Schedule. He said he wanted it for cleaning clothes. It was used for that purpose, and sold for it. During the past month he purchased about three 1-lb. bottles. He purchased one on Saturday evening at about 6.30, paying 3*s.* 6*d.* for it. He did not give any reason for buying it. He had asked him what it was for, as was customary, and he said to clean his clothes.

The Coroner: What are your legal obligations under Part 2?—The poison must bear the name and address of the seller, the name of the poison, it must be put in a poison-bottle, and labelled "Poison."

Is it customary to sell to people over the counter this amount (1 lb.) of chloroform in a bottle like this?—We frequently sell it to doctors.

That is quite a different thing.—And we supply hospitals with it.

Is this sold to produce sleep within your knowledge?—I do not know, sir. I sold it by permission of the manager, and under his personal supervision.

The Coroner: I am not suggesting that you sold it illegally or improperly, but that it is a very unusual quantity to sell to a person who is not a doctor or from a hospital. . . . What had you in your mind when you said you knew it was used for cleaning clothes—what transaction?—Well, I have tried it myself for taking out grease-spots. No one else has used it to my knowledge.

How much was sufficient in your case?—Simply a little.

You did not pay 3*s.* 6*d.* to take out a grease-spot?—No, sir.

What was the condition of this man when you saw him between six and seven on Saturday evening? You hear that he had been in bed all day?—He appeared quite well.

The Coroner: That is unlikely, you know, for apparently he got up and went out to buy this, and went back to bed and remained there until he was found dead.

Dr. F. H. Whitehead, who was called in after death, said the deceased had a handkerchief clenched in his hands, and he had been dead some hours. He could not have inhaled the contents of the two bottles. Methylated chloroform was not used for cleaning-purposes. It was too expensive, and would not clean any better than cheaper things.

Dr. Freyberger, who made an autopsy, said death was due to the effects of a narcotic poison, such as chloroform. The liver was large and firm, and it was evident that the deceased suffered from chronic Bright's disease. He thought chloroform had been drunk as well as inhaled. The deceased had

been in the habit of taking chloroform, which would affect the liver like alcohol.

In summing up, the Coroner said one could have one's own opinion as to what was in the assistant's mind when he sold the chloroform. The chloroform habit was wider than was suspected, and all kinds of reasons were given to chemists when they were asked to supply the drug. There was, however, a legal duty, which had been carried out. The jury returned a verdict in accordance with the evidence.

Football.

Inter-Pharmacy Football League.—London College F.C. v. Square F.C.—This match was played at Shepherd's Bush on Saturday, February 12, before a large crowd of spectators. The teams lined up as follows :

London: Edwards; Walmsley and Rees; Rogers, Strachan, and Webb; Thomas, Tonkin, Freeman, Thomson, and Williams.

Square: Storey; Hayes and Whyte; Pratt, Elton, and Duggleby; Bourn, Sadler, Hall, Purcell, and Trestrail.

Referee: Mr. T. Petherick.

From the kick-off the Square gave the London defence a warm time, and Sadler opened the scoring after about ten minutes' play. The Londoners roused themselves, and Thomson soon netted the ball. Almost from the restart Sadler dribbled the ball through on his own and landed it behind the goalkeeper. The London men equalised just before half-time. The second half was contested at a slower pace. Purcell scored for the Square, and Tonkin for London, the final score being : London College, 3; Square, 3. The following table gives the positions of the competing League teams :

Team	Played	Won	Lost	Drawn	Goals		Points
					For	Agst.	
London College ...	3	1	0	2	10	7	4
Square ...	3	0	1	2	7	10	2
South of England	2	0	0	2	4	4	2

Manchester College F.C. v. Northern College F.C.—The annual fixture between the students of these colleges was played on February 8 at Withington. The former team (Turner's) shortly after the start forced two corners, which proved abortive. The Northern outside right then obtained possession, and, sprinting up the wing, put in a centre for Cheetham to convert, the ball being netted within five minutes from the start. Three more goals accrued during the first half from Unsworth's centres. On crossing over the heavy going began to tell on both teams. "Clayton's" succeeded in notching five other points before the whistle blew, thus winning by 9 goals to *nil*. Ellison, Phillips, and Cheetham were the chief scorers, but the tackling and kicking of Stocks, the Northern right back, was an outstanding feature of the game.

Police-court Charges.

At Greenwich Police Court on February 16, Philip Smith (24) was committed for trial on a charge of breaking into the premises of Boots, Ltd., 76 High Street, Lewisham (C. & D., February 12, p. 242).

At Coventry on February 11, Edwin Ayland, described as a druggist's assistant, was sent to prison for three months for attempting to collect alms at Longford by means of a begging letter stating that he had worked for ten years in the wholesale drug trade, but that he could not get work in his own profession. Three convictions were proved against defendant for stealing lead at Marylebone.

At Portsmouth on February 15, Charles Henry Drew, an employé at the Commercial Road branch, Landport, of Timothy White Co., Ltd., chemists and druggists, was bound over under the Probation Act on a charge of stealing goods valued 2*l.* from his employers. Accused, who had been with the firm for twenty-one years, said that he had stolen the goods in order to provide food for his children, his wife being a drunkard.

At Hull this week, Benjamin Rutherford Lockwood Cox, drug-store proprietor, 12 Gordon Street, Hull, was fined

3*l.*, including costs, for having indecent circulars in his possession for distribution. The circulars were ordered to be destroyed. The prosecution was instituted by the Corporation under a special Act of 1907, which was granted experimentally, and under which the possessor of indecent circulars, prints, cards, etc., has the onus on discovery of showing that they are not intended for circulation. The defendant pleaded ignorance.

Irish News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

Mr. Wm. McMullan (Messrs. Thos. McMullan & Co., druggists, Victoria Street, Belfast) has been appointed a Vice-President of the Windsor Recreation Club.

Mr. Robert Hastings, J.P., registered druggist, and chairman of the Newcastle (co. Down) Urban Council, was present at the banquet given by the Lord Mayor of Belfast on February 5.

Sir Wm. Whitla, L.P.S.I., delivered an address on life-saving in Belfast last week in his capacity as chairman at the annual meeting of the Ulster Branch of the Royal Life-saving Society.

Scots News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Aberdeen.

Mr. James W. Adan, chemist, 252 George Street, Aberdeen, is to open another shop at 72 George Street.

Local dairymen are pushing the "sour-milk treatment," and putting the chemist in the shade. One advertiser offers "full particulars," backed by a "twelve months' successful experience."

Pharmacy and Photography.

In the seventh annual Scottish Salon, now being held in Dundee, pharmacy is well represented. The pharmaceutical veteran Mr. David Storrar, of Kirkcaldy, has several prints. Dr. Inglis Clark and Mr. Glode Guyer (Messrs. Duncan, Flockhart & Co., Edinburgh) hold conspicuous positions. Dr. Clark exhibits a coloured print derived from an autochrome transparency. Mr. Guyer's pictures have been selected by several papers for special comment.

Edinburgh.

Local doctors complain about the apparent healthiness of their patients. One doctor remarked recently that he should be paying forty calls a day at this season, but his daily average for some weeks has been from fifteen to twenty.

In the Court of Session on February 12, Lord Guthrie heard evidence in an action of divorce raised by Jane Bonch O'Brien, or Lochhead, 75 Prestwich Road, Ayr, against her husband, Alexander Russell Lochhead, chemist and druggist, 1 New Road, Ayr, and residing at 58 Northfield Avenue there. Bessie Rose Chisholm, 8 Govan Street, Glasgow, was called as co-respondent. The action was undefended, and, after evidence by the petitioner and others, decree of divorce was granted with expenses.

Glasgow.

Claims against the late Mr. C. E. Laing, chemist, Woodland Road, Glasgow, are to be lodged with Mr. M. Walker, 30 Cadzow Street, Hamilton.

Mr. Gilbert Spears, chemist and druggist, son of Mr. Spears (of Messrs. Spears & Co., Great Western Road), was presented with a travelling bag last Tuesday evening on the occasion of his leaving Glasgow to take up an appointment in London. The employés of Messrs. Spears & Co. held their annual dance on February 8.

TWO SPORTSMEN, with antiquated notions regarding medicine and its uses, came upon a proprietary advertisement in which a well-known athlete related the benefits he had derived from a particular pick-me-up. They laid heavily against the writer of the testimonial when he next appeared in a competition—and they won!

French News.

(From the "C. & D." Correspondent.)

ANTI-TYPHOID SERUM.—Professor Vincent, of the Val-de-Grace Military Hospital, has reported to the Faculty of Medicine upon an anti-typhoid serum which differs from others in being prepared from living instead of dead bacilli, and in being sterilised by ether or chloroform. Three or four injections are said to be sufficient to secure immunity.

THE PROPERTIES OF POLONIUM.—At the Paris Academy of Sciences on Monday, Professor Lippmann announced that Mme. Curie and M. Debierne have isolated one-tenth of a milligram of polonium, to obtain which result they had treated several tons of mineral. Polonium is powerfully radioactive; in 140 days half of it disappeared, and in a year the whole will have vanished.

TARIFF.—At a meeting of the British Chamber of Commerce in Paris, held on February 11, the President, reviewing the year's work, stated, as illustrating the strenuous efforts of the Chamber in reference to the revision of the French Customs duties, that some forty interviews of deputations with the various authorities had taken place. An incessant war had also been waged against the use of fraudulent trade-marks, and undertakings had been obtained from many offenders to refrain from using the incriminated signs.

QUININE FOR THE COLONIES.—A perusal of the statutes of the new Co-operative Association of French Pharmacists, founded under the patronage of the General Association, might lead one to suppose that this Society was founded to prepare, buy, and sell all pharmaceutical products. Its object is, however, simply to render service to the pharmacists of Corsica, Algeria, and other Colonies, and while securing the proper means of combating fever in these lands by the supply of quinine bishydrochloride pills at moderate prices, to secure a fair profit to the trade. The sale price is to be fixed yearly by a committee (which will in every case include a local pharmacist). For 1910 it will be 1*fr.* 30*c.* the phial of fifty pills. This represents the cost of the article at the Mustapha (Algiers) Hospital, augmented by 35 per cent. The interesting point is that any pharmacist not observing the conditions prescribed will not be allowed to have the *dépôt* of the pills.

HYGIENIC OR MEDICAL.—M. Auger, President of the Confectioners' Association at Clermont-Ferrand, has published in a local journal a long letter giving his reasons for believing that grocers and confectioners may legally sell the "Pastilles de Vichy" (digestive lozenges made from the salts of Vichy water). The local pharmaceutical Association have published a reply indicating their grounds for supposing such sale to be illegal. They point out that the decision of the Paris Court of Appeal, cited by M. Auger, was quashed by the Court of Cassation, and that the case was referred to the Orleans Tribunal for re-trial. The Orleans Court held that "bicarbonate of soda, the essential element of the Vichy lozenges, is a medicament," and that a grocer "cannot sell for internal curative use 25 milligrammes of bicarbonate." The point is not whether such a dose is purely "hygienic and harmless," but that a grocer has not the right to sell medicaments, however innocuous their nature.

South African News.

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in business in British South Africa.

Cape Colony.

THE SHIPPING RING.—At the annual meeting of the South African Merchants' Committee on February 10, at Winchester House, London, E.C., the Chairman (Mr. H. Mosenthal) made the rather significant remark that had the recent competition in the South African shipping dispute not come from a foreign source, the Conference lines could

not have relied on the loyal support which they received from the majority of South African shippers. The position of the merchants is at the present time, he said, one of complete uncertainty. Those exporters who closed with the German offers have secured substantial reductions in their freight costs, extending in many cases over the next twelve months, and those who remained loyal to the Conference have nothing except the general promise of protection which was given to them at the commencement of the dispute.

Orange River Colony.

PERSONAL.—Bro. J. Evans (of Heynes, Mathew & Co.) was installed Worshipful Master of the Emerald Lodge of Freemasons, No. 392 I.C., at Bloemfontein on January 19. An enjoyable banquet was held subsequently.

Transvaal.

PERSONAL.—Mr. Elliott, late of Phillips & Co., Pretoria, has joined the staff of Messrs. Burroughs Wellcome & Co. at Cape Town.

NEW RETAIL PRICE-LIST.—The Committee of the Pharmaceutical Society of the Transvaal has issued a new retail price-list, the chief feature of which, besides the many alterations and additions, is that the prices of a number of articles have been deleted. Owing to the fluctuations of Customs duties and also to competition from outside sources, the prices of chemicals and drugs have been so variable that it was thought necessary to bring the old price-list up to date. The only effectual way of dealing with outside cutting of prices was considered to be the removal of many articles from the list, so as to enable chemists to compete. Retail chemists are giving gratifying and loyal support to the efforts of the committee.

ROBBERY BY DRUG-DOPING.—While some Kaffirs were enjoying a quiet evening over their pipes in the Booyeens district a "white man" offered to sell them "puza" ("dop" brandy of Cape manufacture), and the former readily seized upon what they considered an easy evasion of the law against the purchase of stimulants. The precious draughts were quickly swallowed, the amount being according to seniority, from the boss boy, who had three tots, down to the piccanni, whose share was only half a tot. The man waited until the dopes had their effect, and then quietly cleared the ready money from the boxes of the boys, obtaining about 2*l.* in all. On the following morning the "boss" boy was found to be dead, while the others were taken to hospital, and are now recovering. An analysis of a portion of the brandy left in the bottle showed that it contained 145 grains of chloral hydrate in each ounce. The delinquent is still at large, and efforts are being made among Johannesburg chemists to trace the purchase of the drug.

THE BLACK DRAUGHT FATALITY.—At the Criminal Sessions at Pretoria on January 21 the charge of culpable homicide against Mr. E. Galpin, chemist and druggist, of the Tudor Pharmacy, Pretoria, in connection with the death of Mr. E. A. Rees, solicitor, was dismissed. The depositions at the preparatory hearing (*C. & D.*, 1909, II., p. 955) were repeated. Mr. Galpin, who gave evidence on his own behalf, stated that he had been qualified for five years, but had had twenty years' experience. The stock taken over from Messrs. Evans' pharmacy was placed indiscriminately on the shelves of the Tudor Pharmacy before he took over the charge of the shop. Witness and his assistants classified the drugs. Feinberg's statement that witness had instructed him to label the bottle produced "black draught" was a "positive lie," the bottle being some distance from the black-draught bottle. Witness was still employed by the Tudor Pharmacy. Witness had told Dr. Savage that he thought a mixture of quinine and chloroform had been given by mistake to the deceased. He then threw the whole of the mixture away. Witness was very much upset at the time. Mr. Justice Curlewis took an hour and a half to sum up, and the jury twenty minutes to return a verdict of "Not guilty." In discharging Mr. Galpin, the judge warned him to be more careful in the future, and stated he hoped that if such an accident occurred again, in his own interests and in the interests of justice the defendant would not destroy the contents of the bottle.

Our American Letter.

From an Ethical Pharmacist.

FOOD AND DRUGS ACT REGULATIONS.—Regulation 28, regarding the substances which are to be declared when they are present in any article sold, has been amended, so that the derivatives of drugs are to be declared under the names given them in the Act. The regulation comes into force on April 1. The wording is as follows:

"In declaring the quantity or proportion of any of the specified substances, the names by which they are designated in the Act shall be used, and in declaring the quantity or proportion of derivatives of any of the specified substances, in addition to the trade-name of the derivative, the name of the specified substance shall also be stated, so as to indicate clearly that the product is a derivative of the particular specified substance."

TRADE-MARKS IN CUBA.—Ignorance of the Cuban trade-marks law has not infrequently caused British manufacturer's to be victimised. Under Cuban law the user of a trade-mark can only acquire property in it by registration with the Cuban Department of Agriculture, Commerce, and Labour. It is open to any person to register any mark not entered in the records of the Cuban Patent Office. On several occasions unscrupulous persons have registered as their own the marks of well-known British manufacturers doing business in the island, and have then been in a position to restrain the real owners of the marks from selling goods in Cuba under those marks. The object, of course, is to compel the original owner to buy out the rights of the person who has registered the mark. On this account British firms wishing to protect their marks in Cuba should not fail to have them registered in that country.

PHARMACOPŒIA REVISION continues to occupy much attention, pending the approach of the Decennial Pharmacopœia Convention in May. The Coudrey Congressional Bill, providing for the Government ownership and publication of the Pharmacopœia, seems unlikely to be adopted by Congress. The present method of revising the Pharmacopœia by delegates representing the medical and pharmaceutical professions is generally recognised to be almost ideal. On the other hand, it is felt that the Government should co-operate to a considerable extent, and already a good deal of co-operation has been vouchsafed. Professor Remington, Chairman of the Revision Committee, has frequently urged the establishment of a Government-proving laboratory for U.S.P. work, and this suggestion will doubtless be brought forth at the Convention. The demand for publicity in the affairs of the next Revision Committee is gathering force from month to month, and this also will become one of the chief Convention issues.

THE VITAL ATTACK recently made upon the American Druggists' Syndicate and the National Association of Retail Druggists by the "Journal of the American Medical Association" has been referred to in these columns. Echoes of the controversy are still heard. The Philadelphia Association of Retail Druggists has now withdrawn from membership in the N.A.R.D., the reason being that the P.A.R.D. cannot hope to interest physicians in the propaganda for official preparations so long as the organisation is even remotely connected with the manufacture and exploitation of patent medicines. "N.A.R.D. Notes" recently devoted a three-page editorial to the A.M.A. attack, its chief defence being that the A.D.S. has no organic connection with the N.A.R.D., and has nothing to do with the latter's policies; but the "Journal of the American Medical Association" comes back with the statement that the same man is President of both the A.D.S. and the N.A.R.D., and that the officers and members of both organisations are practically identical. The drug journals are beginning to devote editorials to the controversy, which is everywhere recognised to be the acute issue of the hour in American pharmacy. The N.A.R.D. has unfortunately had hard luck throughout its entire history. First, in endeavouring to correct the cut-price situation, it ran counter to Federal laws and had to

give up its campaign. Next it adopted the N.F. and U.S.P. propaganda, and now the success of this is threatened by the opposition of the American Medical Association to the co-operative manufacture of patent medicines by the A.D.S.

Agri-Horticultural Licences.

(Poisons and Pharmacy Act, Sec. 2.)

Notices of Application.

BERKSHIRE.—W. G. Freemantle (Fieldier & Co.), medicine-vendor, Northbrook Street, Newbury.

DONCASTER.—F. Cock, seedsman, 24 St. Sepulchre Gate.

LERWICK.—James W. Irvine, merchant, Victoria Pier.

READING.—Wm. McDroy, Ltd., general-stores proprietors.

Application Granted.

BUCKINGHAMSHIRE.—At a meeting of the County Council on February 10, Councillor Higgins pointed out that the report of the General Purposes Committee showed that although the sale of poisons had been sanctioned in the case of an applicant from Olney, the privilege had been refused in another instance. The Chairman (Alderman T. Mosley) explained that it was considered that the needs in that locality were already satisfied. It was argued by several members "that it did not seem right" to deprive a respectable firm of selling poisonous substances which they had supplied for forty years. The Chairman said that the Committee had endeavoured to carry out the intentions of the Act, but that he was perfectly willing to overrule their decision.—Councillor Higgins, who had previously moved that the matter be referred back to the committee, now moved that it be granted. The proposition was carried by twenty-five votes to nineteen.

Renewals.

KESTIVEN (Lincs).—The County Council have renewed poison-licences at Sleaford, Stamford, and Metheringham.

Inspection.

FAVEESHAM.—The Town Council on February 9 considered the advisability of appointing an inspector under the Poisons and Pharmacy Act. Alderman Child said he brought the matter forward when the licences were renewed because he thought it important seeing that the sale and storage of poisons were unconcerned. However, his inquiries had shown that none of the boroughs in Kent had created such an appointment, and it would be premature on their part to appoint a special inspector for so small a duty, especially as one of the two licences issued was practically in abeyance. He believed that the Council could, if they chose, send their sanitary inspector to inspect premises licensed for the sale of poisons. The Deputy Town Clerk said he found no direction to the Council to appoint an inspector. He learned from ten Town Clerks to whom he had written that none of the Town Councils had made such an appointment. Mr. E. Jenkins, chemist and druggist, said that the Act stated that the Council "shall" appoint an Inspector. Eventually the Council decided to let the matter drop for the present.

[There is nothing in the Poisons and Pharmacy Act or the Regulations of the Privy Council enforcing the appointment of an inspector. Regulation 17 reads:

All premises from or on which a licensee is authorised to sell or keep open shop for the sale of poisonous substances shall at all reasonable times be open to inspection by officers appointed by a local authority.

Folkestone Town Council have appointed an inspector for this purpose.—Ed.]

WHITEHAVEN.—The Town Council, in reply to the Privy Council, *re* the petition of the Cumberland and Westmoreland Chemists' Association against the indiscriminate issuing of licences, states that the Council has no observations to make on the petition.

Application Refused.

LONDON.—The County Council had before them on February 15 an application from Mr. B. C. Hart, corn-dealer, 129 Stanstead Road, Forest Hill, S.E. The Public Control Committee reported that the applicant's business did not come within the category of those specially connected with horticulture, and recommended that, as facilities already exist locally for the sale of poisonous substances, the application should not be granted. This was agreed to.

BURNS.—Before attempting to deal with any considerable burn, especially in a child, it is wise first to administer chloroform and stimulants. Then the clothes and dirt can be properly removed, the surface cleansed, and a picric-acid or other dressing applied.—Hospital.

Legal Reports.

High Court Cases.

[Unless where otherwise stated the actions are in the High Courts of Justice, London.]

NUGGET-POLISH PRICES.

In the Chancery Division, before Mr. Justice Eve, on February 15, the action of the Nugget Polish Co. *v.* Holmes and Andrews was heard as a short cause. The plaintiffs, for whom Mr. Sebastian appeared, moved for judgment in default of defence. They claimed a declaration that the defendants, who were described as of Otley Road, Bradford, were not entitled to sell the plaintiffs' goods except at the prices and under the conditions specified in an agreement between the plaintiffs and the defendants dated January 1905. They also sought an injunction restraining the defendants from selling the goods, and asked for an inquiry as to damages and costs. His Lordship made the application as desired.

NATIONAL CASH REGISTERS.

The case of *Riley v. National Cash Register, Ltd.* (*C. & D.*, February 12, p. 246) was again mentioned before Mr. Justice Ridley in the King's Bench Division on February 12, when Mr. A. Profumo (for the defendants) applied with reference to the counterclaim of 7*l.*, which was not mentioned to his Lordship at the conclusion of the trial on February 9. He asked for judgment on the counterclaim.

Mr. Macnaughten (for the plaintiff) said he would resist the application. His client relied upon an oral agreement, under which the company were entitled to 7*l.*, but the defendants won on a written agreement, under which they were only entitled to 4*l.* The jury had been sworn and discharged without being consulted on the counterclaim, and he could not agree to a judgment which would amount to one by consent, as that might have the result of preventing him from appealing on that part of the case. The trial was, he contended, abortive so far as the counterclaim was concerned. Then there was the matter of the costs, which the defendants agreed to pay to plaintiff in any case, having regard to the fact that it was upon defendants' application that the case was removed from the County Court to the High Court.

Mr. Justice Ridley said he thought the defendants were entitled to their 7*l.*

Mr. Profumo said his company did not wish to be harsh. They would rather Mr. Riley paid the last instalment and kept the machine.

His Lordship entered judgment for defendants on the claim and counterclaim and for costs generally, but said he would make no order as to the costs as between solicitor and client, which the defendants had agreed to pay the plaintiff in any event, and which were occasioned by the removal of the case from the County Court to the High Court. His Lordship said he would not give leave to appeal. He thought that should be an end of the matter.

The Dentists Act (1878).

USING TITLE UNLAWFULLY.

At Kingston-on-Thames Borough Police Court, on February 16, before the Mayor and other Magistrates, H. J. Hamer, Gibbon Road, Kingston, was summoned by Mr. Frank A. Rogers, dentist, Finsbury Pavement, E.C., on behalf of the Society of British Dentists, for unlawfully taking and using the title of "dentist." Mr. T. F. Charlton, solicitor, appeared for prosecutor, and Mr. T. Young, solicitor, was for defendant, who pleaded guilty. Mr. Charlton outlined the case, saying defendant had caused to be published in the "Surrey Comet," a paper having a circulation of 18,000, the following notice:

"Dr. Hamer, dentist, late manager of the Kingston Artificial Teeth Institute, of 46A Clarence Street, is desirous to inform his friends, patients, and the inhabitants of Kingston and neighbourhood that he has commenced practice at 12 Gibbon Road, where he may be consulted free. Best workmanship and materials guaranteed. Moderate charges in all cases. Hours, 10 A.M. to 9 P.M. Note the address, 12 Gibbon Road, off Richmond Road, Kingston-on-Thames."

Mr. Rogers had visited defendant and requested him to examine his mouth and quote a price for artificial teeth.

Defendant wrote a quotation on the back of a business card, whereon was printed "Dr. H. J. Hamer, dentist." Mr. Young pleaded for mitigation of penalty, and said his client was not a doctor or a dentist, but had attended lectures on anatomy and other subjects at Birmingham. The Mayor, after consultation with his colleagues, stated that they were of opinion that this was a fraud on the public, but as it was the first case under this Act ever heard at this Court they fined the defendant 5*l.* and costs. His Worship gave warning that the penalty would be heavier next time. Defendant asked for time to pay, and was allowed seven days.

Medicine-stamp Act, 1812.

"VICTORY MIXTURE."

At the Birmingham Police Court on February 16 Walter Wellington Leslie Smith, Walford Road, Sparkbrook, was fined 10*l.* and costs for selling medicine without a licence, and 5*l.* and costs for selling medicine insufficiently stamped. Mr. C. E. FitzRoy prosecuted on behalf of the Excise authorities, and the defendant was represented by Mr. Arthur Ward. An Inland Revenue officer gave evidence to the effect that he called at defendant's house and purchased for 3*s.* a bottle of "Victory Mixture," which the defendant claimed to be a cure for sciatica, neuralgia, rheumatism, gout, and lumbago. The bottle had a 3*d.* stamp attached, whereas the duty should have been 6*d.* Defendant sought to induce the witness to purchase a bottle of lotion, and told him that if he brought back the 3*d.* stamp, which could be removed by hot water, the price of the second bottle would be only 2*s.* 6*d.* Witness removed the stamp, and, calling again the next day, handed it to the defendant, requesting at the same time to be supplied with a bottle of the lotion. Before handing this over defendant removed the stamp from it by using hot water. Defendant, in giving evidence, said that he gave the officer 3*d.* for the stamp he returned because the latter pleaded poverty. He was not aware that it was necessary to take out a licence apart from paying the stamp-duty.

County Court Case.

A CHEMISTS' EXHIBITION ECHO.

At Bow County Court on Wednesday, February 16, before Judge Smyly, Messrs. James Boulton & Co., Ltd., chemical manufacturers, Stratford, E., brought an action against Mr. W. L. Towers, chemist, of Chatham, to recover 6*l.* 1*s.* for goods alleged to have been ordered by him. Mr. G. M. Hilbery appeared for the plaintiffs, and Mr. W. S. Glyn-Jones (instructed by Messrs. Neve, Beck & Kirby) for the defendant.

Mr. Hilbery said the claim was made by the plaintiffs in respect of goods ordered by the defendant and sold to him. In May 1909 there was a chemists' exhibition in London, and Messrs. Boulton had a stand there at which they exhibited and sold goods. On May 12, at that exhibition, the defendant gave an order for goods to Mr. Scriven, who took it, and duly entered it in his book in the presence of defendant and Mr. James, the plaintiffs' manager. The order was for twelve dozen of "Restorine," a hair restorer, at 10*s.* a dozen, and an arrangement was made that the goods should be sent, together with a machine for exhibiting the goods. However, the machine was not sold, and no claim was made for it. A coupon was to be given away with each bottle, and on June 17 Messrs. Boulton & Co. wrote to the defendant forwarding him a proof of the coupon, and stating that if they did not hear from him in the course of a few days they would assume that the same was correct, and forward the goods.

His Honour: That was sent to the defendant?

Counsel answered in the affirmative, and added that the goods were despatched on July 26, together with an invoice. The latter was returned by Mr. Towers, who had written on it, "Not ordered and not wanted, and will be refused when tendered." Plaintiffs then wrote back pointing out that the order was given at the Chemists' Exhibition, the goods to be sent as soon as ready, and that they had sent a proof of the coupon, to which the defendant had not replied. That was on July 29, and on July 30 Mr. Towers wrote stating that he was astonished that they should try and do business in such a manner. The goods

had not been ordered, no proof of the coupon had been sent as suggested, and their representative had already been told that the goods had not been ordered.

His Honour: Then how can you sue for goods sold and delivered? You should have asked for damages for non-acceptance. I don't see how you can prove your case.

Mr. Hilbery: The goods are set apart the moment they are identified with this order.

His Honour: No goods were set apart because no goods were sold and delivered. There might be damages for non-acceptance, but no goods have been sold and delivered here. People are continually doing this kind of thing. They have an idea they will frighten people into paying, but it is the maddest thing to do, because you may be prevented from getting damages for non-acceptance.

Mr. Hilbery: My submission is that there is nothing needed to be done in this case to make the property pass to the defendant.

His Honour: It is clear that the property did not pass, and they were not set aside for him. He simply gave the order and before the goods were delivered he repudiated the order.

Mr. Hilbery: Apart from the necessity for him to go and take the goods, or select them, he gave an order for certain goods, and those goods were identified with him and despatched to him.

His Honour: Oh, no, no! If they had not been up to sample they could have been sent back. You can't pass goods in that way.

Mr. Hilbery: He does send them back.

His Honour: Yes, he refused to accept them, and your course of action, if any, is for non-acceptance. On the facts of the case you have opened there is no case of a sale. I will non-suit in this case, and that will not prevent you proceeding for damages for non-acceptance.

Mr. Hilbery expected for leave to amend the summons, but his Honour said a summons could not be amended in that way. That kind of thing was continually being done, and plaintiffs would be non-suited.

Mr. Glyn-Jones asked for a certificate for counsel in the case, but the application was refused.

Bankruptcy Reports.

Re George Albert Gower, 838 Romford Road, Essex.—This director attended at the London Bankruptcy Court for public examination on February 10, and was allowed to pass upon accounts showing gross liabilities 165*l.* 10*s.* 10*d.* (unsecured 115*l.* 10*s.*) and assets 17*l.* 5*s.* 6*d.*, less a deduction of 8*l.* 0*s.* 10*d.* for the preferential claims. In the course of his evidence the debtor stated that he had been connected with the drug-trade for many years past, either on his own account or in employment. In 1904 he took a shop at 962 Romford Road, and started business as a drug-stores proprietor and chemist. In May 1906 he removed to his present address. The failure was the result of litigation in connection with another business that he had carried on, principally by means of advertisements. The debtor added that he had not qualified as a chemist.

Re William Jopling, 175 West End Lane, West Hampstead, N.W., Chemist.—The public examination of this debtor took place at the London Bankruptcy Court on February 10. The accounts showed total liabilities 1,852*l.* 12*s.* 7*d.* (unsecured 1,710*l.* 4*s.* 3*d.*) and net assets 259*l.* 15*s.* 2*d.* The debtor stated that he commenced business in 1890 at Colchester with about 1,500*l.* capital, and in 1895, in consequence of a heavy liability under a guarantee for a brother, he made a private arrangement with his creditors, paying a composition of 6*s.* 8*d.* in the pound on liabilities amounting to 6,750*l.* He then with borrowed money purchased for 750*l.* a business at 82 King's Road, Chelsea, and carried it on until March 1900, when he sold it for 1,100*l.* In August 1900 he paid 400*l.* for a business at 7 Gresham Street, but sold it for 600*l.* in the following January, and two months later he purchased for 525*l.* a business at 4 Castle Hill, Maidenhead. That business he carried on successfully until November 1908, when he sold it for 1,100*l.* In December 1908 he purchased the Hampstead business for 680*l.*, and circumstances followed which have already been reported in the *C. & D.* (January 15, p. 71). He attributed his failure entirely to alleged misrepresentation of the value of the Hampstead business. The examination was concluded.

Re Henry Watson Gregor Brown, Church Street, Highbridge, drug-store proprietor. The examination of this debtor took place at Bristol on February 9, before Mr. F. L. Clark, the Official Receiver, and a statement of affairs showing liabilities amounting to 295*l.* 15*s.* 2*d.*, of which 284*l.* 14*s.* 1*d.* is unsecured, and assets amounting to 46*l.* 19*s.* 6*d.*, the deficiency being 237*l.* 14*s.* 7*d.*, was read. The Official Receiver reported that in September 1905 the debtor agreed with Mr. F. H. Hickman, Eastover, Bridgwater, to manage a new drug-store, which was to be opened at Market Square, Bridgwater, for which he was paid a weekly salary until May 1907, when the debtor purchased the business for 550*l.*, to be paid in half-yearly instalments of not less than 20*l.* each. On June 25, 1909, Mr. Hickman gave the debtor notice that he had committed certain breaches of the agreement, whereupon the debtor handed over the business, stock-in-trade, and fittings to Mr. Hickman, and in August following started a small drug-store at Church Street, Highbridge. He had no capital, but his father guaranteed a bank overdraft of 40*l.* The Official Receiver further stated that the debtor re-started trading with full knowledge of his insolvency, and had since contracted debts amounting to 141*l.* 4*s.* 8*d.* The following are creditors: J. W. Baker & Co., Bristol, 17*l.*; R. J. Fullwood & Bland, London, 13*l.*; Butler & Crispe, London, 49*l.*; Gilbert V. Sheppard, Highbridge, 21*l.*; "Bankers," Highbridge, 55*l.*

Gazette.

Partnership Dissolved.

TURNER, J. S., and HAMPTON, L. B., glass-bottle manufacturers, Liverpool, under the style of the Richmond Glass-bottle Manufacturing Co.

The Bankruptcy Acts, 1883 and 1890.

RECEIVING ORDER.

MELSON, A. T. (lately trading as Groom's Mineral-water Supply), Sydenham Road, Sydenham, London, S.E., mineral-water manufacturer.

ADJUDICATIONS.

BARTON-WRIGHT, EDWARD WILLIAM, Albemarle Street, London, W., electro-therapeutic specialist.

PARTINGTON, WILLIAM, Bolton, Lancs, surgical-appliance maker.

SEWELL, WILLIAM, Elizabeth Street, Eaton Square, and Gloucester Grove East, South Kensington, late Chester Mews, Grosvenor Place, London, S.W., veterinary surgeon and farrier.

Trust Deed.

FINDLAY, JAMES, 97 Argyle Street, Dunoon, chemist and druggist.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

PROTAL, LTD. (P.C.).—Capital 100*l.* in 1*l.* shares. Objects: To carry on the business of chemical manufacturers and merchants, manufacturers of and dealers in chemical products, etc. W. S. Attewell is the first secretary. R.O., 36 Lombard Road, Battersea Park, S.W.

ESSEX MANUFACTURING CO., LTD. (P.C.).—Capital 2,500*l.*, in 1*l.* shares. Objects: To take over the business of manufacturers of and dealers in tooth and toilet powders, metal and boot polishes, etc., carried on by the Essex Manufacturing Co., and to adopt an agreement with T. H. Cowper. The first directors are T. H. Cowper, D. Anderson, and H. Jarecki.

ALTONA, LTD. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of manure, massage, complexion, and toilet specialists, manufacturers of and dealers in soap, perfumes, and toilet requisites, etc. The first subscribers are Kate C. Atherton, 14 Handel Mansions, Handel Street, W.C., and Mrs. E. S. Butler, 21 Avington Grove, Penge, S.E.

OIL AND OZOKERITE CO., LTD.—Capital 1,450,000*l.* in 1*l.* shares (950,000 7-per-cent. participating pref.). Objects: To acquire and work two ozokerite-mines and petroleum territories on the Boryslaw and Tustanowice Oil Fields, Galicia, Austria-Hungary. The first directors are J. S. Higham, M.P., T. Makinson-Sanders, J. Meldrum, and L. A. Jouques. Remuneration 450*l.* each per annum (550*l.* extra for the chairman). R.O., Broad Street Avenue, E.C.

TORRET, LTD. (P.C.).—Capital 2,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in a vegetable product known as "Calsa" and other preparations,

manufacturing chemists, etc., and to adopt an agreement with A. S. Caldwell, 10 Bush Lane, E.C., and A. H. B. Tuffman. The first directors are A. S. Caldwell (managing director), C. A. Piper, and F. E. Grubb.

PRICHARD & CONSTANCE, LTD. (P.C.).—Capital 2,500*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in chemicals, pharmaceutical, medicinal, industrial, and other preparations, etc., and to adopt an agreement with T. W. Theakston and R. H. Brittain. The first directors are T. W. Theakston (managing director) and R. H. Brittain. Qualification, 100*l.*. Remuneration, 100*l.* per annum (managing director, 450*l.*). R.O., 64 Haymarket, S.W.

W. H. HOBBS & CO., LTD. (P.C.).—Capital, 12,000*l.*, in 1*l.* shares. Objects: To take over the business of an essential-oil merchant and distiller, flower farmer, manufacturer, and importer and exporter of raw materials used by manufacturing confectioners, perfumers, soap and cordial makers, chemists and druggists, etc., carried on by W. H. Hobbs, at 5 Trinity Square, Tower Hill, E.C. The first directors are W. H. Hobbs (chairman and governing director) and T. J. McArthur (managing director). Remuneration of first directors, 500*l.* and 450*l.* per annum respectively. R.O., 5 Trinity Square, Tower Hill, E.C.

Company News.

BLYTHE & CO., LTD.—It is proposed to increase the capital of this Blackburn company of chemical-manufacturers and drysalsters to 75,000*l.*

BOVRIL, LTD.—The directors have declared a dividend of 7 per cent. on the ordinary shares (the same as in 1908), and 2 per cent. on the deferred; 7,500*l.* has been placed to reserve, making this fund 182,500*l.* The balance forward is 2,500*l.* less, at 12,900*l.*

BORAX CONSOLIDATED, LTD.—The annual report for the year ended September 30, 1909, states that the profits are 277,994*l.* The debenture interest, interim dividends on the preference shares and on the preferred ordinary shares paid May 1, and income-tax to April 5, 1909, absorbed 97,786*l.* After making provision for depreciation, sinking fund, and other items, there is a balance of 193,646*l.*, out of which the final dividends on the preference shares and on the preferred ordinary shares paid on November 1 last, together with the interim dividend on the deferred ordinary shares paid on November 10 last, absorb 69,250*l.*, and from the balance the directors propose to pay a final dividend of 1*s.* 6*d.* per share on the deferred ordinary shares, making 11¼ per cent. for the year, and to carry forward 56,896*l.*

SAVILLE TOWN CHEMICAL CO., LTD.—Judge Gent held an inquiry at the Dewsbury County Court last week in a case arising out of the winding-up of this company, and in which the liquidators, Mr. F. K. Lees of Bradford, and Mr. W. H. Shaw of Dewsbury, sought to have it declared that Mr. John Sowden and Mr. R. B. Waddington, directors of the company, were jointly and severally liable to contribute sums of 100*l.* and 5*l.*; also that Sowden should re-assign to the liquidators certain leasehold hereditaments, which, it was alleged, had been assigned to him with a fraudulent preference. In the course of the hearing it was stated that the 100*l.* represented a premium paid by a youth's father for his apprenticeship to the company, and the 5*l.* was in respect to a share. Evidence was called to show that the assignment referred to was made to Sowden because he had advanced 636*l.* for certain buildings which cost 650*l.*, and it was contended that the intention was that the buildings should become his property. His Honour reserved judgment.

T. & H. SMITH, LTD.—The report for the year ended September 30, 1909, shows a profit, after deducting directors' fees and making provision for bad debts, of 12,625*l.*, to which is added balance brought forward from last year (939*l.*), making a total of 13,565*l.* An interim dividend has been paid on the preference shares for the half-year to March 31, 1909, absorbing 1,584*l.*, leaving a balance of 11,980*l.*; out of this the directors propose to pay the dividend on the preference shares for the half-year to September 30 (1,584*l.*), to pay a dividend on the ordinary shares to September 30 of 7½ per cent. per annum, free of tax (4,875*l.*), to set aside 1,165*l.* as a bonus among such members of the staff (including directors in the employment of the company) as the directors see fit, to write off 2,445*l.* for the expenses of dismantling and removal from the old works, and to write off the expenses of the debenture issue (577*l.*), leaving a balance of 1,333*l.* to be carried forward. The directors have pleasure in reporting the completion of the organisation and centralisation of the new premises at Gorgie. Advantage was taken of the opportunity afforded by the removal from Canonmills to have the machinery and plant thoroughly overhauled, with the result that it has been set down in the new premises in a first-class state of repair and efficiency. The retiring chairman of directors, Mr. Donald Mackenzie, offers himself for re-election,

as also do the auditors. The annual meeting will be held at the registered office at Edinburgh on February 18.

MORTGAGES AND CHARGES.—Particulars of the following have been filed: *A. G. Glasspool, Ltd.*. Debenture to secure 250*l.*: holder, R. W. Allen.—*Mintmax Consolidated, Ltd.*. Issue of 850*l.* debentures.—*Joseph Turner & Co., Ltd.*. A statement of the total mortgages and charges outstanding on July 1, 1908, securing 3,800*l.*—*Charles Massey & Son, Ltd.*. Issues on January 19 of 1,000*l.* and on February 5 of 100*l.* debentures, part of a series of which particulars have already been filed.—*Synoloids, Ltd.*. A memorandum of satisfaction in full on February 7, 1910, of charge dated December 18, 1909, securing 20*l.*, has been filed.

Births.

DAVIES.—At 374 Brockley Road, Crofton Park, London, S.E., on February 13, the wife of L. Rhys Davies, chemist and druggist, of a daughter.

PURDIE.—At 125 Longrow, Campbeltown, on February 5, the wife of W. A. Purdie, chemist and druggist, of a daughter.

Marriage.

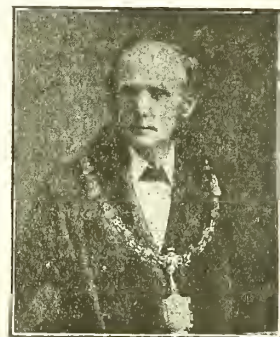
FOX—BOOTH.—At St. Andrew's, Sharrow, Sheffield, on February 10, Alfred Russell, eldest son of Councillor and Mrs. A. Russell Fox, Ingleton House, Crookesmoor, to Nellie, elder daughter of Mr. and Mrs. T. Booth, of The Hollies, Nether Edge.

Deaths.

BRYANT.—On February 5, Mr. Robert Waller Bryant, chemist and druggist, Alford, Lincs, aged ninety.

HARRIES.—At Hill Side, Aberdare, on February 10, Mr. Charles Albert Harries, chemist and druggist, aged forty-eight.

HORSLEY.—At Hartlepool, on February 15, Alderman John Horsley, chemist and druggist, 104 High Street, Hartlepool, aged seventy-one. Mr. Horsley had filled the office of Mayor of Hartlepool seven times, and was honoured on February 21, 1907, with a presentation of an illuminated address by his colleagues on the local Board of Guardians. His public career extended over a remarkably long period. He had been a member of the local Corporation for thirty-six years, and the freedom of the Borough was conferred upon him when he retired from the Mayoral chair in 1900. He had been a member at various times of every important public body or charitable institution in the locality. He had acted as Chairman to the Board of Guardians, Hartlepool Education Committee, Harbour Commissioners, and Pilotage Board. Mr. Horsley was also an Alderman of the Durham County Council.



ALDERMAN HORSLEY.

INNES.—At 78 Essex Road, Islington, London, N., on February 11, Mr. Richard Langlands Innes, chemist and druggist, aged thirty-eight. The sudden death of the deceased gentleman necessitated an inquest, at which the jury found that Mr. Innes died from syncope due to pneumonia and enlarged heart. Mr. Innes was a native of Dumbarton, and qualified in 1894.

KAIN.—On February 3, Mr. Francis Allen Kain, chemist and druggist, Preston, Brighton, aged eighty-seven.

MILLS.—At Chepstow (Mon.) recently, Mr. John Jervis Mills, chemist and druggist, aged eighty-four. The deceased gentleman was in business at 24 St. Mary Street, Chepstow, for many years.

MUNRO.—At 153 High Street, Loehec, on February 12. Neil George, infant son of Mr. N. G. Munro, chemist and druggist.

PERKINS.—At Kidderminster Infirmary, on February 13, the result of a shooting accident on the polling-day in Mid-Worcester, Mr. John Christopher Perkins, aged thirty-one, brother of Mr. G. M. Perkins, pharmacist, Knighton, and Mr. T. R. Perkins, pharmacist, Henley in Arden.

ROBERTS.—At 38 Esplanade, Scarborough, on February 12, Mr. Robert Roberts, chemist and druggist, aged seventy-four. The deceased gentleman was for many years with the firm of J. M. Crosby & Co. prior to its conversion into a limited liability company. The interment took place on February 16.

SAWDEN.—At Liverpool, on February 9, after a brief illness, Mr. Alfred Sawden, pharmaceutical chemist, 28 Lark Lane, Sefton Park, Liverpool, aged fifty-eight.

STEVENS.—On February 8, Mr. William Stevens, dispenser at the Woolwich Union Dispensary, aged forty-eight.

WILSON.—At Cobden Avenue, Peterborough, on February 9, Mr. Alfred Wilson, representative for Messrs. Sturton & Sons, Ltd., chemists, 42 Bridge Street, Peterborough, aged fifty-six. Mr. Wilson had been in the firm's employ for forty-four years, for thirty-three of which he was on the road. He was seized with his fatal illness on February 7 while out travelling.

Personalities.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

MR. JOHN E. STURGE, of Messrs. J. & E. Sturge, Birmingham, has been elected a member of the West India Committee.

MR. W. S. GLYN-JONES, M.C.C., is a candidate for the London County Council, and is contesting Stepney in the Progressive interest.

MISS H. E. BISHOP, daughter of Mr. W. Bishop, chemist and druggist, Welshpool, has passed the Senior Local examination of the Cambridge University.

MR. ANDREW DAVIDSON, chemist and druggist, 45 Fore Street, Trowbridge, has been elected a member of the Council of the local Chamber of Commerce.

MR. R. W. ROBBINS, chemist and druggist, 44 St. Leonard's Road, Bexhill-on-Sea, has been elected Vice-Chairman of the local Commercial Association.

MR. D. W. E. BARKER, pharmacist, formerly of Horsham and Fulham, partner in the firm of Barker & Son, manufacturing chemists, Wrexham, has been elected a Fellow of the Chemical Society.

BRO. EDGAR M. CHAPMAN, F.I.C., Ph.C., was installed W.M. of the "Denison Lodge," No. 1248, Scarborough, on February 8. He invested as Senior Warden Bro. George Whitfield, pharmaceutical chemist.

MR. WILLIAM KIRKBY, M.Sc. (Messrs. Jewsbury & Brown's), was, at a recent meeting of the Trustees of the Manchester Royal Infirmary, appointed honorary visiting apothecary to the infirmary.

MR. D. REYNOLDS, of Messrs. Goodall, Backhouse & Co., 54 Southwark Street, London, S.E., is one of the stewards for the ninth festival dinner of the London Commercial Travellers' Benevolent Society, to be held at the Criterion Restaurant on April 21 next.

MR. SAMUEL W. FAIRCHILD, of New York, is on February 24 to be entertained to dinner by the Union League Club of that city, "in recognition of his distinguished services as Chairman of the Executive Committee and Chairman of the House Committee of the Club."

The movements of Professor Wyndham Dunstan, Director of the Imperial Institute, are minutely chronicled

in the Ceylon Press. On his arrival in Colombo he immediately paid a visit to H.E. the Governor (Sir Hugh Clifford), and afterwards conferred with the officials of the Mineralogical Survey. The Professor is to stay two months in the island in order to study its mineral resources and advise the Government regarding the lines on which the Mineralogical Department (including thorianite) should be worked.

AN excellent portrait of Councillor Samborne Cook, J.P., of Nottingham, appears in "The Trader," a Nottingham weekly. We learn from the biographical sketch which accompanies the portrait that Mr. Cook was born in Somersetshire in 1857, and was educated at Summerleaze Collegiate School, near Bristol. He began his apprenticeship in Nottingham in 1873, and thereafter studied at the Westminster College of Pharmacy, and passed the Minor examination in June 1881. He commenced business on his own account at 76 Radford Road, Hyson Green, Nottingham, soon after. In 1894 he began to participate in public life, serving as Guardian and as a member of the City Council, while he has taken an active part in the affairs of the Nottingham and Notts Pharmaceutical Association.

Business Changes.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

BOOTS LTD. have acquired the business of Mr. T. S. Hodgson, chemist and druggist, at 68 South Road, Waterloo, Liverpool.

MESSRS. H. P. TRUEFITT, LTD., will shortly be removing from 13 and 14 Old Bond Street, to 16 Old Bond Street, London, W.

MR. E. C. GILES, pharmacist, has taken over the pharmacy recently opened by Mr. T. H. Prichard, chemist and druggist, at Cwm, Mon.

MR. H. JENKINS, chemist and druggist, has started business in the premises formerly occupied by the late Mr. C. W. Moore, chemist and druggist, at 19 Bank Street, Braintree, Essex.

MR. WALTER R. HART, chemist and druggist, has purchased the business at 42 Shaftesbury Avenue, Piccadilly Circus, W., from Mr. H. Norris Davidge. The central pharmacy at No. 11 Shaftesbury Avenue will still be conducted by Mr. Davidge.

MESSRS. W. H. HOBBS & Co., essential-oil merchants, 5 Trinity Square, London, E.C., announce that they have converted their business into a limited-liability company. Their manager, Mr. T. J. McArthur, will continue to be associated with Mr. W. H. Hobbs as joint managing directors.

Recent Wills.

MR. FREDERICK JONES, chemist and druggist, Bridport, Dorset, who died December 4 last, aged seventy-nine years, left estate valued at 686*l.* 9*s.* 1*d.* gross, with net personality 632*l.* 2*s.* 1*d.*

MR. THOMAS MORFORD, chemist and druggist, 196 High Street, Stoke Newington, London, N., who died on January 29, aged sixty-eight years, left estate valued at 210*l.* 14*s.* gross, of which 114*l.* 15*s.* is net personality.

MR. WILLIAM PREBBLE, Blackburn, who carried on business as a chemist there, and died on December 26 last, aged fifty-two years, left estate valued at 243*l.* Probate of his will has been granted to his widow, Mrs. Alice Matilda Prebble.

THE LATE MRS. MARGARET STALKER SCOBIE, widow of Mr. James Scobie, chemist and druggist, Sandwick Place, Edinburgh, left personal estate valued at 2,304*l.* 7*s.* 6*d.*, of which 1,495*l.* is in Scotland. Administration has been granted to her son, Mr. W. S. Scobie, chemist.

MR. HENRY FOSTER, J.P., chemist and druggist, Ludlow, Salop, who died on December 2 last, aged sixty-three years, second son of Alderman Edward Foster, chemist, left estate of the gross value of 6,747*l.* 9*s.* 2*d.*, of which the net personality has been sworn at 2,168*l.* 12*s.* 9*d.* His wife, sons (Edward, Herbert, and Henry), and daughters (Emma and Alice Mary) are the beneficiaries, the estate including landed property.

Trade Notes.

MR. H. E. CULLWICK, 163 North Street, Wolverhampton, solicits correspondence with chemists who have mechanical dental work to execute for their customers. He will furnish quotations on application.

MESSRS. H. SALLE & CIE., 4 Rue Elzevir, Paris, inform us that the recent floods in Paris have not interfered with their business, and they have been executing, and can still execute, orders without delay.

MESSRS. EVANS SONS LESCHER & WEBB, LTD., of Liverpool and London, have received their first consignments of this season's Norwegian medicinal cod-liver oil, and will be glad to furnish samples and quotations to buyers. The quality appears to be exceptional.

MR. C. W. FIELD, manufacturing chemist, Cambrian Mills, Wood Street, Liverpool, informs us that the premises he occupies were formerly in possession of the Liverpool Apothecaries' Co., Ltd. (1836). For the last twenty-five years Mr. Field has occupied them, and his essential-oil distillery adjoins these premises.

PEACH-KERNEL OIL.—MESSRS. Herbert Hymans & Co., Catherine House, 13 and 14 Trinity Square, London, E.C., are agents for one of the largest pressers of peach-kernel oil—oil. amygd. persic.—and are prepared to supply the product at competitive prices to wholesale houses. The sample we have received is sweet and bland in flavour, and we are further informed that Mr. E. J. Parry has pronounced his opinion that the oil is genuine.

MESSRS. H. C. QUELCH & Co., 4 Ludgate Square, London, E.C., inform us that the J. Ellwood Lee Co., manufacturers of the Syracuse Suspensory Bandages (for whom they have been agents for many years), have transferred their rights to Messrs. Johnson & Johnson, of New Brunswick, N.J., but Messrs. Quelch will continue to execute and invoice orders for the goods in this country, although orders may also be given to Messrs. Timpson & Co., Ltd.

KEEPING THE SALES UP.—On Monday morning, Messrs. Wright, Layman & Umney, Ltd., received a letter from a lady whose son is a cadet at Osborne, and who regularly used Wright's Coal-Tar Soap. His mother attributed his escape from influenza to this use of the soap. The letter came before Mr. John C. Umney at half-past ten, and before noon thousands of copies of the letter were distributed in London streets as an advertisement in the evening papers.

"SANITAS" POCKET SPITTOON.—The "Sanitas" Co., Ltd., has introduced a new pocket spittoon flask, consisting of a flattened pear-shaped blue-glass receptacle closed at each end by nickelled screw caps lined with rubber plugs. The spittoon is quite fluid-tight and the double cap enables one to cleanse it easily and thoroughly. The article is protected for sale by retail at 1s. 2½d. Trade terms can be obtained on application to the "Sanitas" Co., Ltd., Locksley Street, Limehouse, London, E.

TROMMER ELIXIR contains the alkaloidal extractives of cod's liver in combination with liquid malt extract. The preparation is a bright amber fluid of pleasant taste without any of the unpalatable flavour associated with preparations of cod's liver. It is being brought to physicians' notice on an extensive scale as a tonic with stimulant and digestive nutrient properties. Particulars of this and other combinations can be obtained from the Trommer Co., Ltd., 27 Charterhouse Square, London, E.C.

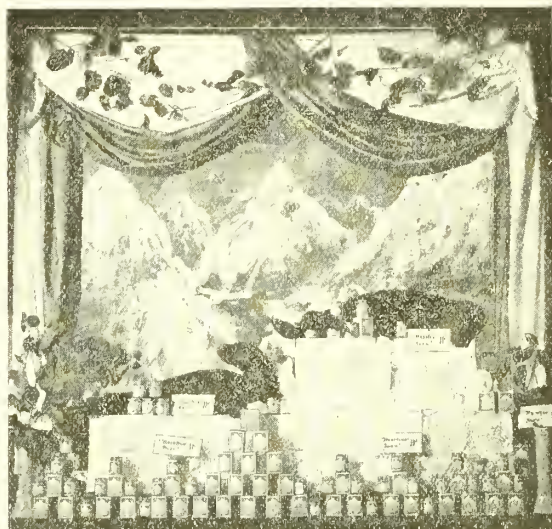
NEW NORWEGIAN COD-LIVER OIL.—Messrs. Allen & Hanburys, Ltd., received their first consignment of 1910 cod-liver oil from their factories in the Lofoten Islands on Saturday (February 12), and larger consignments are now on the way. It has been stated that the new oil will not be so pale and bright this year, as the yield is smaller, but the sample which Messrs. Allen & Hanburys send us by no means confirms this impression, the oil being exceptionally pale in colour, perfectly bland in flavour, and quite free from any suspicion of "fishy" odour. Samples and price will be sent to any reader on application. The company's Norwegian manager reports that the prospects for a large fishing are not very bright at present.

THE PROPRIETARY ARTICLES TRADE ASSOCIATION Year-book for 1910, including the protected list and particulars of the Chemists' Defence Association, Ltd., has been issued this week from 184-185 Temple Chambers, Temple Avenue, London, E.C. The cover this year is white, which makes it distinctive among the books of reference generally to be found on a chemist's desk. The protected list now extends to ninety-three pages, which is a remarkable testimony to the success of the P.A.T.A. principle in this country. Lists of members of both Associations, reports of the last year's workings, and the names of the executive officers are included.

OPTICAL CATALOGUE.—Messrs. F. Darton & Co., Clerkenwell Optical Works, 142 St. John Street, Clerkenwell, London, E.C., have issued a new list of spectacles, eyeglasses, trial-cases, and optical sundries. The list occupies 126 pages, and is of a very instructive character, as every variety of spectacles seems to be enumerated, illustrated, and priced. Following the spectacles and eyeglasses, the following are dealt with: Cases, chains, cords, trial-cases, trial-frames, test-types, ophthalmoscopes, lens-working apparatus, show-signs, artificial eyes, reading-glasses and magnifiers, and telescopes. The illustrations are printed in green, the text being in black, and each item is provided with a number for convenience in ordering.

Chemists' Windows.

Photographs of window-displays sent to the Editor for reproduction in this section should be accompanied by notes on how the windows were dressed, and, where possible, the results.



A Hazeline Snow Exhibit.

Messrs. Booth & Openshaw, of Blackburn, arranged this effective display. Blocks of spermaceti were employed to represent ice, upon which two seals rest, the spaces between the blocks being loosely filled with cotton-wool sprinkled with mica frosting crystals. The snow-clad mountain effect in the background was produced with ordinary decorator's materials on brown paper. Dummy bottles and cartons of Hazeline Snow, with showcards and drapery, completed the display, which "drew the crowd."

PERSIAN OPIUM.—The exports of opium from Bushire for the Persian fiscal year March 22, 1908, to March 21, 1909, amounted to 3,497 cwt., valued at 196,044l., as compared with 4,251 cwt., valued at 238,405l. in 1907-08. Included in the above were exports to the United Kingdom of 1,314 cwt. (71,541l.) in 1908-09, as compared with 2,950 cwt. (165,567l.) in 1907-08. China received 1,925 cwt., against 894 cwt.; Belgium 145 cwt., against 79 cwt.; and Egypt 106 cwt., against 44 cwt.

The Week's Poisonings.

TWENTY fatalities, including nine misadventures, have been recorded from poisoning during the week, and such particulars as are of trade interest are given in the paragraphs following:

Arsenic.—Richard Bulger and Arthur Avery died at Manchester from the effects of eating pancakes which had been made with a vermin-killer consisting of arsenic and plaster of Paris, in mistake for flour. It is stated that the same substance had previously been used for dusting some rabbits and fish previous to cooking, with ill effects.

Carbolic Acid.—Annabala Singiorgo (2), St. Pancras, N.W., picked up a bottle of this in a washhouse, drank some, and died. Another child at Chelsea, E. J. S. Carlian (2), died similarly, drinking from a quart can of the acid kept in a bedroom.

Laudanum caused the death by misadventure of John Sedgewood, despatch clerk, Drogheda.—At a Sheffield inquest Dr. G. Carter deposed that the death of George Bridges, blacksmith, was due to laudanum-poisoning, and at the same time it was stated that deceased would have died within a few days of his actual death from the effects of a poker-blow on the head. The laudanum was in a rum-bottle, and deceased had taken some to relieve the pain.

Mercury Perchloride.—At Luton Mrs. Hinge poisoned herself by taking antiseptic tablets containing this poison. She obtained the tablets from a drawer in her lodger's room. At the inquest the lodger, who described herself as a "magnetic healer," stated that a chemist had sold her the tablets to clean hair-brushes. She added that she afterwards buried the bottle of tablets in the garden, where it was dug up by the police. A doctor denied that the tablets were used for cleaning hair-brushes. An open verdict was returned. Her nine-months-old child, to whom deceased had administered several tablets, also succumbed to the poison.—At Hemsworth, on February 10, an inquest was held into the death of a two-year-old child named Bird. Dr. Wiltshire deposed that he had supplied the child's parents with some tablets for making a lotion, but he did not attach a poison-label. The infant had picked up a tablet which had fallen on the floor, and swallowed it. Each tablet contained about $8\frac{3}{4}$ grains of corrosive sublimate. The Coroner commented on this very loose way of distributing poison, and the jury expressed the opinion that the tablets should be labelled "Poison."

Oxalic Acid.—Mrs. Ellen E. Howard (29), of Trinity Street, London, N., committed suicide with oxalic acid.—The same poison was used by Charles Brochett (66), South Norwood, licensed victualler, by J. G. Pike, a Southwark gas-fitter, and by A. H. Taylor (47), a West Hampstead school caretaker.

Potassium Cyanide was taken with suicidal intent by William A. Rainger (69), artist, Wimbledon, and Thomas Brandreth (61), clock-maker, Lozells.—At the inquest on Henry H. Saddington, of Newmarket, whose death from cyanide of potassium poisoning was reported last week, an inmate of the Kettering Workhouse, named Langford, deposed to taking a written order to the local branch of Boots, Ltd. Deceased had told him that if any questions were asked that witness was to say it was to be used for nickel-plating. Mr. Alfred Plumb, chemist and druggist, of Boots, Ltd., produced an order signed "J. Vincor Minter" for 2 oz. of potassium cyanide. He asked the previous witness for what purpose it was required, but he did not get any intelligible reply. He supplied the cyanide, and Langford signed the poison-register. The Rev. J. Vincor Minter stated that he had not signed the requisition. The jury found a verdict of suicide during temporary insanity.

Prussic Acid was used by Leonard Franeis (49), groom, Bristol, to end his life.

Salt of Lemon, taken in mistake for Seidlitz powder, caused the death of Mary Jackson at Low Moor, near Bradford.

Strychnine.—The Oxford City Coroner (Dr. H. F. Galpin) resumed on February 7 his inquiry into the circumstances attending the death of James Murphy, aged three years and four months. Dr. Waters, assistant physician at the Radcliffe Infirmary, stated that the child had been an out-patient at the hospital for the past few weeks. Witness had prescribed Easton's syrup in 20-drop doses, to be taken in water. Each dose would contain $\frac{1}{8}$ grain of strychnine. A dose of $\frac{1}{4}$ grain would prove fatal to a child two and a half years old. The child's grandmother deposed that her daughter administered half a teaspoonful of the syrup to the infant at night, and gave witness instructions to give another dose the following morning, which she did, and a few minutes afterwards the child fainted, and died before the arrival of the doctor. Mr. F. W. Philpott, chemist and druggist, dispenser at the infirmary, deposed to dispensing 2 oz. of Easton's syrup, and said that the spoon handed to him would hold about 120 drops. It was recognised that, from the nature

of Easton's syrup, it was better to send it out in an undiluted form. In answer to a question by the jury, Mr. Philpott stated, "When this medicine was issued under a doctor's prescription there is no obligation, statutory or otherwise, to label it other than with a white label." Dr. Rivers-Willson stated that death was due to strychnine-poisoning. The bottle in court was of a capacity of 5 oz., and contained 1 oz. of syrup. He was of opinion that Easton's syrup is proper medicament to give a child, and that it had been sent out in proper form from the Radcliffe Infirmary. Mr. Philpott, recalled, said the bottle appeared a clumsy one from which to pour 20 drops. The bottles were found by the patients, but if they did not bring them they could be purchased from the porter. The Coroner remarked upon the unsatisfactory nature of the bottle for pouring purposes, and said that the teaspoon appeared to be larger than usual. The jury returned a verdict of "Death by misadventure," and added a rider that when dangerous medicines were issued a proper label to that effect should be attached to the bottle.—An inquiry was opened at Bradford on February 11 relative to the death at East Bierley of Mr. J. Scott, of Messrs. Scott, Knapton & Co., manufacturers, Bradford, who died suddenly on February 9. Deceased complained, after drinking half a cupful of his coffee, that it was nasty. He left for the station in his brougham, but asked his coachman shortly afterwards to drive him home, as he felt ill. He expired almost immediately after getting back. An analysis by Mr. F. W. Richardson, F.I.C., did not reveal anything unusual as regards the ground coffee or cream which was used in making the coffee, but the decoction in the cup contained half a grain of strychnine to each fluid ounce. The inquest was adjourned for an analysis of deceased's internal organs. Our correspondent reports that it is stated that a chemist has been found who is in a position to give evidence on the resumption of the inquiry regarding the supply of the poison.

Sulphonal.—A verdict of suicide while temporarily insane was returned at the inquest upon Geoffrey Jas. Harrison (30), journalist, Walsall, who died from an overdose of sulphonal, which he had been accustomed to take for insomnia. It was stated that deceased had taken 500 grains of sulphonal in two days. Dr. Caddick said that during a conversation deceased told him that he had taken 50 grains of sulphonal as one dose, and then, finding this had no effect, on another occasion he had increased the dose to 300.

Other Inquests.

At the Clapham Coroner's Court on February 7, the death of Emile Ernest Jennings (61), who was described as a chemist, of 75 Abbeville Road, London, S.W., was found to be due to coma induced by jaundice.

At the Holborn Coroner's Court on February 10, a verdict of death from natural causes was returned at the inquest upon Mr. Thomas Detchon (63), whose death we reported last week. Mr. Detchon died from an attack of heart-disease while in a lift at the Chancery Lane Station on the Central London Railway.

At the Wandsworth Town Hall on February 11, during the inquiry into the death of Henry Jas. West, aged six months, the Coroner (Mr. John Troutbeck) remarked that some cough-mixture was not marked "Poison." Some of the mixture had been given to the infant by his mother, along with some castor oil, to cure a cold. "Natural causes" was the verdict returned.

"There is no truth in the report that the success of the new French play 'Chantecler' has stimulated the demand for galenicals," writes Mr. Cecil Smith.

BY ORDER OF THE TRUSTEE under a deed of assignment, the remainder of Messrs. Lynch & Co.'s stock of surgical instruments, showcases, show-cases, counter-cases and fittings was sold by auction at 62A Aldersgate Street, London, E.C., on Thursday, February 17, at fairly satisfactory prices.

GERMAN POTASH BILL.—The Government's Potash Syndicate Bill was introduced in the Reichstag on February 14. Herr Sydow, the Prussian Minister of Commerce, explained that it was necessary to prevent an industry, in which a sum of 500,000,000m. (25,000,000l.) was invested, from falling into American hands, a fate with which it was at present threatened. The fulfilment of the existing American contracts would be allowed, but the companies executing such contracts would have to pay compensation to the monopoly. Dr. Heim (Centre) protested against the introduction of a private monopoly under a Government guarantee. If the Government wished to protect the German consumer from having to pay more for German products than the foreigner, it had better begin with the steel and coal syndicates.

Westminster Wisdom.

A Record of Parliamentary Progress.

RE-ASSEMBLING OF PARLIAMENT.

With the declaration on Monday of the poll in Orkney and Shetland the new House of Commons was completed, except that Mr. William O'Brien has been returned for two constituencies. The following is an analysis by "The Times" of the final returns showing the state of parties :

Liberals	...	...	275	
Labour Members	...	...	40	
Nationalists	...	...	71	397
Independent Nationalists	...	...	11	
Unionists	...	...	273	273
Total	...	...	670	
Ministerial majority	...	...	124	

The House reopened on Tuesday, when Mr. Lowther was re-elected Speaker; and on Wednesday the formality of swearing-in members was commenced. The real work will not begin until Monday afternoon, February 21, when the King will open Parliament in state.

MINISTERIAL CHANGES.

The King has approved the appointment of Mr. Churchill to be Secretary of State for the Home Department, Mr. Sydney Buxton to be President of the Board of Trade, Mr. J. A. Pease to be Chancellor of the Duchy of Lancaster, and Mr. Herbert Samuel to be Postmaster-General. The Master of Elibank has been appointed Parliamentary Secretary to the Treasury.

QUACK MEDICINES.

We are informed upon excellent authority that no further steps have yet been taken in regard to the appointment of the Select Committee which was hinted at by Mr. Gladstone in the latter part of last Session in regard to various questions arising out of the sale of patent medicines.

It may be recalled that the Home Secretary expressed the opinion that the whole question was one which he thought might with advantage be so investigated, and he promised to communicate in the meantime with the Privy Council, which was the department primarily concerned in the matter.

POISONS AND PHARMACY ACT.

We learn upon official authority that up to the present time no steps have been taken by the Government in the direction of the introduction of a Bill to amend the Poisons and Pharmacy Act of 1903. Indeed, there appears to be but little likelihood, in view of the uncertainty of the political situation and the exigencies of Parliamentary business, of any great amount of departmental legislation—if any—being introduced in the course of the present Session. This applies to the Shops Bill, which was introduced by the Home Secretary at a late period of last Session in order that its provisions might be laid before the country; the Bill to reform the bankruptcy laws, which, it is understood, is already in process of being drafted by the officials of the Board of Trade and the Bill dealing with the question of indecent publications and goods.

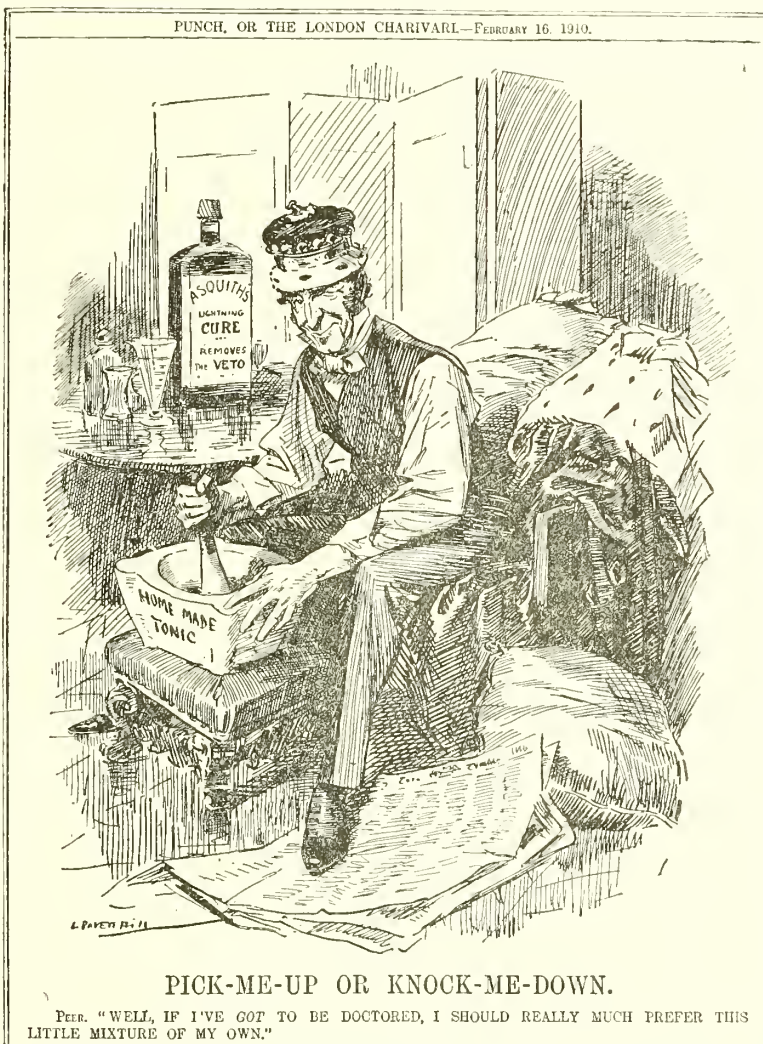
PORT OF LONDON RATES.

It is officially stated that the inquiry which is to be held by the Port of London Authority in regard to the proposed rates to be levied by that body will be opened on February 24. It is not yet decided whether the proceedings will be conducted in public, or, if so, to what extent they will be reported in the Press. In due course the committee will investigate the question of chemicals, drugs, oils, and other preparations. The London Chamber of Commerce will be represented at the inquiry by counsel, and witnesses who have special knowledge of the subject of the inquiry.

MERCHANDISE MARKS ACT.

The Association of Chambers of Commerce of the United Kingdom have decided, at the instance of the Sheffield Chamber, to make application to the Financial Secretary to the Treasury asking him to receive a deputation in regard to the seizure of goods under the Merchandise Marks Act. If the application of the memorialists should be acceded to the Sheffield Chamber will be accompanied to Whitehall by a number of other bodies of a representative character, so that the whole matter may be presented as fully as possible to the Financial Secretary.

PUNCH, OR THE LONDON CHARIVARI—FEBRUARY 16, 1910.



PICK-ME-UP OR KNOCK-ME-DOWN.

PEER. "WELL, IF I'VE GOT TO BE DOCTORED, I SHOULD REALLY MUCH PREFER THIS LITTLE MIXTURE OF MY OWN."

REPRODUCED BY SPECIAL PERMISSION OF THE PROPRIETORS OF "PUNCH."

The Properties of Sand.

SOME instructive matters were touched upon during the discourse of Mr. C. E. S. Phillips, F.R.S.E., at the Royal Institution on February 11. The title of the lecture was "The Electrical and Other Properties of Sand." The colour of the sand of Alum Bay, I.W., is due to a layer of iron oxide with which each sand grain is coated, but iron is present in even the whitest sand. The black ironsands of New Zealand consist mainly of magnetite, while the black sand of the Isle of Wight is chiefly silicate of iron. The properties of the former were exhibited by means of a magnet optically projected on the screen, the lines of force being beautifully shown by the arrangement of the particles of sand. Numerous photographic slides were produced to demonstrate the effects obtained by sand in large quantities. Some beautiful photo-micrographs exhibited variations in the composition of sand and the shape of the grains. Sand from the Sahara, with its wealth of marine shells, proved that this arid desert was once the bed of a huge ocean. The uses of sand were next touched upon, the chief topic being glass-making, and to illustrate the subject a red-hot crucible containing molten glass was brought into the lecture-theatre and the contents poured out on to a slab. On cooling a crystal-clear disc of glass was held up for inspection. Sand has an important place in warfare, as a bank of sand 20 in. thick is proof against modern rifle-shots. The electrical properties of sand were then shown, a jet of sand being allowed to fall in turn on a square of metal, paper, and wood, these being connected with an electrostatic voltmeter. Wood gives the best effect; metal soon "tires," this being due to the surface becoming pitted and retaining a protecting layer of sand. The electricity of sand is positive, but, curiously, a rod of silica—sand is chiefly silica—shows negative electricity. This difference was shown to vary according to whether the silica rod is excited at the side or on the rough ends, the latter giving positive electricity. The electrical properties of sand are of considerable interest in studying the curious phenomena of sandstorms. Those who have walked on a stretch of wet sand have noticed the singular drying effect which occurs when the sand is pressed by the foot. This is due entirely to an alteration in the "piling" of the sand grains. Normally the grains are close together, but abnormal piling is brought about by pressure of the foot—that is, the space between the edges of the grains is enlarged and the water drained away. If the pressure of the foot is continued the sand becomes wetter than ever, the partial vacuum quickly bringing water from the surrounding sand. The various theories of quicksands were next referred to, the lecturer favouring the theory that the mobile character of the sands is due to the imprisonment between the grains of gases from organic matter. The practicability of this theory was well shown by comparing the properties of ordinary wet sand and an artificial quicksand, produced by adding sodium peroxide to the sand before adding the same amount of water as in the blank experiment. The terrible properties of the Goodwin Sands were shown experimentally to be due to the exhaustion of air beneath the ship, the effect being compared to that exhibited by the leather suckers by which boys lift heavy stones. Boring operations show that the Goodwin Sands are 80 ft. deep and rest on solid chalk. It was next shown that the amount of sand in a tube has no effect on the rate of flow out of a nozzle at the bottom of the tube, this being due to the way sand grains interlock. Shrieking sands derive their name from sounds emitted by certain sands when they are struck. Some shrieking sand in a mortar was pressed by a pestle and gave out a squeal almost human in its tone. The lecturer concluded by playing on a kind of sand organ composed of four long tubes of sand, each of which gave out a different note—the dampness and method of packing being other factors accounting for the variation in tone.

Among the exhibits in the library were galvanit by the Galvanit Co., and a display of radium by Messrs. Armbricht, Nelson & Co. Mr. Rosenberg, the inventor of galvanit, informed our representative that the sales of galvanit have much exceeded anticipation; the factory is working night and day to fill the shoals of orders which the extensive advertising has brought.

INFORMATION DEPARTMENT



The object of this department is to supply our subscribers with the names and addresses of manufacturers and agents, or other business information which they may be in need of. Inquiries should be sent by post, addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Inquiries in regard to dispensing, legal, practical, technical, or other pharmaceutical subjects should be addressed to The Editor, who will reply to them in the Correspondence Columns.

Information Wanted.

We would be obliged if readers would reply, by postcard or otherwise, to any of the subjoined inquiries. Replies should be addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

- 78/13. Makers of "Carmelite Essence Amol."
- 77/55. Doyen's Mycolysine; where obtainable?
- 63/19. Where can supplies of shallots be obtained?
- 75/74. What is "Therox," and where obtainable?
- 80/6. "Clark's Fly Poison": proprietors or agents.
- 78/2. Present address of the "Zarina" Toilet Article Co.
- 78/30. Manufacturers of "Forbes's Drench" for cattle.
- 78/22. Proprietors of "Hollamby's Balsam of Aniseed."
- 78/15. Address of Wood, Sherwood & Co., makers of "Soap Shakers."
- 77/54. Where can Ritter's (or Royter's) soap be obtained; said to be American?
- 78/14. Present address of the Donn Manufacturing Co., makers of liquorice, etc.

Information Supplied.

In reply to inquiries, information has been sent during the past week to subscribers and others by our Information Department in regard to the following subjects. The information will be repeated to any others requiring it who send a stamped and addressed envelope for the purpose to the Information Department as above.

- | | |
|---|---|
| Andrew Jergens Co. products (72/18). | De Jongh's cod-liver oil, supply (75/8). |
| Bellair's One-Solution Hair-dye, makers (75/52). | "Kephi," supply (74/54). |
| Boxwood-topped corks, makers (78/21). | Krüschen Salts, proprietors (78/6). |
| "Carmelite" preparations, makers (78/13). | Llewellyn's preparations, makers (76/50). |
| "Cincola" veterinary preparations, makers (76/47). | Movable figures for window-advertising (N.Z. Inquiry, 75/68). |
| Coke-oven oil, suppliers (75/7). | Port-wine finings, first-hand dealers (72/9). |
| Confectionery essences and colours, actual makers (76/65). | "Radiol" preparations, makers (77/3). |
| "Domes of Silence," makers (76/70). | Rotary stands for window-display (N.Z. Inquiry, 75/68). |
| Drenching-bits, makers (73/40). | "Ruberoid" flooring, makers (77/70). |
| Electric trams, railways, etc., for window-display (N.Z. Inquiry, 75/68). | "Sanatogen," address of makers (74/15). |
| Enamelled letters, makers (69/42). | Savar's suspensory bandages, makers (75/8). |
| Eucalyptus Citriodora, supply (75/24). | "Smith's weed-killer," manufacturers (74/10). |
| Tile-flooring, makers (77/70). | Soap-dispensers, agents (78/15). |
| Filter-papers, makers (77/18). | Spectacle-cases, makers (70/73). |
| "Fournier Hygienic Mixture," makers and agents (77/7). | Steam sterilisers, British makers (77/4). |
| Goat Serum, makers (73/44). | "Tulase" makers and agents (78/16). |
| Granose Biscuits, makers (75/17). | Esmarch bandages, makers (75/54). |

APPRECIATION.

A Scottish M.P.S. (78/4) writes: "I applied to the wholesale trade in London and Liverpool for a certain perfume, but could not trace it: then to the C. & D., and received the information promptly. This experience leads me to the fact that it is not a bad thing to keep in touch with the C. & D., and to draw upon it, in suitable circumstances, when at a loss, in the hope of assistance. I procured the needed perfume and gratified my customer."



OFFICE: 42 CANNON STREET, E.C.

SATURDAY FEBRUARY 19, 1910.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED THE MONEY IS TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 852 Bank (two lines). Telegraphic Address: "Chemicus London."

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

A financial surplus
is ensured by advertising
in this Supplement.

IT PAYS TO PAY TO ADVERTISE HEREIN.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of **SALE, PURCHASE, and VALUATION.**

1.—LONDON (Western Suburb).—Modern Pharmacy; excellent position; returns average over £2,000 per annum; *profits good*; roomy shop; corner position; full investigation invited; further details on application.

2.—LONDON (Northern Suburb).—Busy locality; ready money Retail and Prescribing Business; established 20 years and held by vendor 17; returns average £955; profit (after all expenses paid) £276; rent £50; new lease will be granted; price £400.

3.—RICHMOND (near).—Good middle-class Business; Retail and Dispensing; returns £700; scope for development; *net profit* £200; attractive well-fitted shop, double fronted; convenient house, side entrance; terms, goodwill £50 and valuation.

4.—HYDE PARK (near).—Old-established Business; Retail and Dispensing; returns £600 (about); *net profit one-third*; immediate sale desired; full investigation invited; no reasonable offer refused.

5.—LONDON, S.E.—Retail, Prescribing, and Dispensing Business; returns £650; *net income* £210; price £300.

6.—NEW CROSS.—Main thoroughfare; General, Retail, Prescribing, and Photographic trade; returns £1,300, which produce a *net income* of £300; roomy shop, well stocked; price £850.

7.—LONDON, S.W.—Retail, Dispensing, Prescribing, and Photographic trade; returns between £600 and £650; *net income* £225 (proof given); price £425.

8.—WEST OF ENGLAND.—Old-established Business; Retail and Dispensing; position unique; returns £1,400, at *fair prices*; terms £50 and valuation of stock and fixtures.

9.—WESTERN COUNTY.—Good-class Business; Retail and Dispensing; returns exceed £1,000 per annum; scope for development; price £450.

10.—DENBIGH.—Modern Pharmacy, Retail, Dispensing, and Photographic; returns £1,200 (average); handsomely-fitted shop, fully stocked; price £1,250.

11.—SUFFOLK (Market Town).—Store Business; position unique; returns £1,500; roomy premises, held on lease; terms, valuation of stock and fixtures.

12.—SUSSEX.—Unopposed Business; returns, present rate, about £10 weekly; scope for large development; intending investors with about £200 at command will find this an excellent investment.

13.—NORTH OF ENGLAND.—Old-established Business; Retail, Dispensing, and Photographic; returns average £1,092; *net profit* £280; price £1,000; illness cause of sale.

14.—YORKS (Market Town).—General, Retail, and Photographic trade; returns between £700 and £750 per annum; *net income* about £230; good roomy house; excellent position; rent £45; held on lease; valuation terms entertained.

Particulars of any of the above will be furnished on application.

N.B. NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.*Licensed Valuers,***73 LAUREL ROAD, LEICESTER.**

Telegrams, "Brett Leicester." Telephone 160 Y.

F. J. BRETT, M.P.S., gives personal attention to all VALUATIONS. An experience of over thirty years is at your disposal.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a Purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.**STOCKTAKING SPECIALISTS to the Entire DRUG TRADE**

1.—NOTTS.—Light General Retail; no Patents; returns £600 at a net profit of £300; old established; can be greatly increased by a smart "live" man; price £300.

2.—SOUTH COAST.—High-class Retail and Dispensing; returns £1,300; fine roomy house and double-fronted shop; good long lease; price £950.

3.—LONDON, W.—Good-class Retail, Dispensing, and several valuable Proprietaries; fine house and most excellent shop in residential suburb; returns £650, and increasing; net profit £200; vendor must sell, and is open to the first reasonable offer; a real good thing.

4.—N.E. COAST.—Family Retail and Dispensing; returns about £600; well-fitted shop and nice house; price £500.

5.—SURREY.—Light medium-class Retail; returns £865 under an unqualified manager; has done over £1,000; net profit £245; good double-fronted shop and nice house; in a splendid position, with any amount of scope for increase; price £250.

6.—GOOD-CLASS Retail Country Business for Sale, near London; fine house, garden, etc., in most desirable locality; returns £900; price £150 and valuation of stock and fixtures; a sound, genuine business; several valuable Proprietaries attached.

7.—YORKS.—Nice Light Retail; small lock-up shop; very few Patents; returns £475; low rent; price £200, or a reasonable offer will be accepted.

8.—STOKE-ON-TRENT (near).—Medium-class General Retail, Prescribing, and own "Preps."; very old established; good, lofty shop and well fitted; returns £1,100, profitable; price, valuation, about £900.

9.—WORCESTERSHIRE.—Light Retail; returns £500 (can be doubled by an energetic man); good house and shop, at low rent; price, valuation of stock and fixtures, about £350.

Pharmacists who are thinking of having their Stock taken are requested to write us; we have an extensive and, what is more, PRACTICAL experience as Chemists and Druggists, both Wholesale and Retail. We annually Stocktake for Pharmacists all over the U.K., and our most moderate terms and high-class work place us "on top" as experts for this very important branch of our ever-increasing business.

PARSON C. BAKER**174 VICTORIA ST., LONDON, S.W.***Recommended by*—MESSRS. BARRON, HARVEYS & CO.Telephone: MESSRS. MEGGESON & CO.
No. 27 Victoria MESSRS. BARCLAY & SON, LTD.

A RAPIDLY increasing Chemist and Dentist Business in leading thoroughfare, London, S.E.; returns £1,500, and showing net profit £500; nice shop; good house; rent £75; fullest investigation; now under qualified manager.

IN South London, at junction of two good thoroughfares, an old-established Retail and Prescribing Business, with nice shop, good and large house, very nice garden; £60; returns increasing, now £900 at good prices; fullest investigation and introduction given.

IN the Midland Counties; centre of very nice town of 3,000 inhabitants, and beautiful country district; an old Family Retail, with large amount of Dispensing, very little heavy; Wine and Spirit Licence, not an agency; returns about £2,000, at good prices; and net profits about £500; rent £70 on lease; landlord does repairs; nice shop, good house and warehouses; fullest investigation; introduction given; price £1,700, or valuation terms can be arranged.

NEAR Victoria Street; good Retail and Prescribing, with good profits; price about £250; returns about £850.

T O M T O M

Telegraphic Address.

THOS. TOMLINSON & SON.

Chemists' Valuers and Expert Stocktakers.

Businesses transferred privately.

29 NEW CANNON STREET, MANCHESTER.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and particulars can be sent to us direct or through the advertisers' correspondents in this country.

MESSRS. BERDOE & FISH,*Chemists' Valuers and Transfer Agents,***35 JEWRY STREET, FENCHURCH STREET, CITY.**

TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to Purchasers.)

1.—SUFFOLK (good market town).—Good-class Light Retail; with valuable Specialities; returns £900; net profit £270, capable of increase; splendid house, good garden; price £850, or valuation terms arranged; worth attention.

2.—GLOUCS.—Good-class Retail, with large sale of own Specialities; returns £750 to £800; fine corner shop, well fitted and stocked; good market town; price £550.

3.—MIDDLESEX.—Good-class Light Retail Business; returns £900; net profit £250; no opposition; modern Pharmacy; stock and fixtures worth £600; price £725; personally inspected.

4.—HAMPSHIRE.—Light Family Retail Business in good-class growing district; returns nearly £700; no side-lines; plenty of scope; net profit £220; good house and shop; price £440.

5.—SURREY.—Good-class Light Retail Business; in growing residential town; returns £550; no heavy trade; net profit over £200; good house and garden; charming locality; price £450.

6.—WEST OF ENGLAND.—Old-established Light Retail Business; no Patents sold; returns £500; net profit £175; main-road position; can be much increased; price £360, or valuation.

7.—LONDON, S.W. (main-road position).—Moderate Cash Retail, entirely under management; returns exceed £2,000, stands to do £5,000; fine corner Pharmacy; price £900, or simply valuation.

8.—LONDON, S.E. (Death Vacancy).—Well-established Business; returns about £1,800, scope for increase; splendid main road position; stock and fixtures worth £600; price £750.

9.—SOUTH COAST.—Light Retail, Dispensing, and Prescribing Business in good position; returns £800; net profit £200 to £250; good house and shop; low rent; long lease; price £520, or £200 down and £365 by instalments.

10.—BUCKS.—Good-class Retail and Dispensing Business; in central position; returns about £700; large house and garden; attractive shop, heavily stocked; price £550.

11.—STAFFS.—Sound Mixed Retail Business in splendid position of important market town; returns £500; can easily be doubled; net profit £200; price £350 or simply valuation.

12.—EASTERN COUNTY.—Unopposed Light Retail, Dispensing, and Prescribing Business; returns average £800; net profit one-third; well-fitted shop, fully stocked; large house; pleasantly situated; price £465.

13.—MONMOUTHSHIRE.—Good-class Country Retail, in busy market town; returns £550 to £700 under manager; scope for increase; low rent; well fitted and stocked; price £425, or near offer.

14.—LINGS.—Mixed Retail and Prescribing Business; neglected; returns about £350; plenty of scope; rent under £20; good position; fully stocked; price £185.

15.—NORWOOD.—Good-class Retail and Dispensing Business; returns £600; net profit £190; growing district; low rent; well fitted and stocked; price £350; strongly recommended.

16.—LONDON, N.W.—Sound Light Cash Retail Business; returns over £650; well-fitted shop, fully stocked; good house, etc.; price only £350; personally inspected.

STOCKTAKING VALUATIONS.

WE undertake stocktakings in any part of the kingdom. cost is exceedingly small. We invite those thinking about it to write for our circular on the subject, and our reduced terms for doing the work.

The work is done in full detail and by experts. The about it to write for our circular on the subject, and

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

BERKS (easy access to London main line).—Good-class Retail, Dispensing, and Prescribing Business; returns £950, at exceptionally good profits; low rent; on long lease; convenient house, well-fitted shop and heavily stocked; price £600, or reasonable offer; fullest investigation invited; genuine reason for selling. "Prescription" (204/15), Office of this Paper.

BIRMINGHAM (near).—Unique opportunity occurs for acquiring high-class and rapidly increasing Business in pleasant, healthy locality; exceptionally low rent on lease; returns about £800; cash price £550. Particulars from Charles L. Moores, Druggists' Sundriesman, 32 Navigation Street, Birmingham.

BIRMINGHAM (Suburb).—A well-established Light Retail Business to be Sold, immediately; no reasonable offer refused; good reason given for disposing; full particulars on application. 202/25, Office of this Paper.

BRISTOL.—Cash Drug-store; returns about £500 under unqualified man, qualified man could double this; good working-class district; strictest investigation courted; large shop with good windows; rent £40; price £250, or near offer, as a quick sale is desired; grand chance for energetic beginner. "Moreno" (202/32), Office of this Paper.

DEVONSHIRE.—Neglected Business; returns (present rate) £550; scope for development; immediate sale necessary; no reasonable offer refused. Apply, "G. H. G." (79/58), Office of this Paper.

DISTANT London Suburb.—Good-class Light Retail and Dispensing Business; returns approach £1,500, at profitable prices; cause of sale, retiring; handsome fittings, large stock; buyers must be prepared with £1,000 cash, which is the lowest price. Apply, "S. S. W." (204/51), Office of this Paper.

ESSEX.—In one of the most rapidly rising suburbs; grand position for increase; opened 4 years; returns last year over £700 and still increasing; good profitable cash trade; fine opening for Dentistry; long lease; moderate rent; modern fittings and well stocked; excellent house; an exceptional opportunity for up-to-date man; must be sold; price £450. 201/32, Office of this Paper.

NEAR MANCHESTER.—Good-class Retail and Prescribing Business for Sale; corner shop; main road; opening for Optics and Dentistry; good house, private entrance; stock all saleable, in good condition; only wants seeing; established 16 years; reason for disposal, leaving town; price £250. 202/15, Office of this Paper.

LANCASHIRE.—Improving business sales 1909, £901 14s.; few Patents; large sale of own Proprietaries; rent £28 10s.; price for quick sale £400. Apply, "Ganer," c/o Southall Bros. & Barclay, Ltd., Birmingham.

LONDON, S.E.—In consequence of ill-health, a handsomely fitted and well-stocked Pharmacy, recognised as the best in the district; Dispensing, Retail, and good Proprietaries; returns £1,200; net profit over £300; price £850; in a very busy and populous neighbourhood and offering unlimited scope; should be seen to realise its possibilities. L. Guy, Boughton House, Chester. No agents.

LONDON, S.E.—£200, or near offer.—For immediate Disposal, under very exceptional circumstances, an old-established Business, in main road; somewhat neglected; capable of good increase; stock and fixtures alone worth over £300. Full particulars, "H. J.," 2 Elsinore Road, Forest Hill, S.E.

LONDON, W.—Branch Business for Disposal; main road; splendid position; large population; been open 18 months; year's takings between £900 and £1,000; good profits; no near opposition, and good prices obtained; large house; lease 21 years; lowest cash price £650; references exchanged. Apply, 201/25, Office of this Paper.

LONDON, S.E.—Old-established Business; good-class Retail and Dispensing; returns £750; good opening for Optics; tram and bus termini within a few yards; large house, private entrance, and small garden; about £450 required. Apply, "W. J." (200/2), Office of this Paper.

LONDON, N.—Owing to death of proprietor, an old-established Business in main market thoroughfare for Sale; 17 years' lease; well stocked, can be extended enormously; to immediate buyer price £300. Apply, 205/10, Office of this Paper.

LONDON, N.—Very profitable ready-money Business in populous district; Prescribing and Retail; old-established; lock-up shop; returns £680; low outgoings; golden opportunity for man with small capital; valuation or reasonable offer; bona-fide purchasers only dealt with; family reasons cause of disposal. "Bargain," 31 Milner Square, Islington.

MANCHESTER.—Old-established, profitable, Retail and Prescribing Business; in busy neighbourhood; few Patents; no heavy trade; taking about £7; scope for increase; plate-glass, double front; good house; low rent; must be sold; first reasonable offer accepted. "B.," c/o Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester.

RHONDDA VALLEY.—Good-class Cash Retail Business; Optics and Dentistry; good position; smart shop; everything up to date; returns £1,400 and big scope for increase; price £1,500. Apply, "Wales" (201/13), Office of this Paper.

SOUTH COAST.—Good-class profitable Retail in main thoroughfare, producing net income of £330 and capable of increase; well-fitted and stocked; excellent house, with garden; satisfactory reason for disposal; price £800; part payment accepted; no agents. State available capital and references to 201/16, Office of this Paper.

SOUTH COAST.—£150; small Drug-store for Disposal, neatly fitted; no near opposition; good chance for pushing man, or quiet living for elderly gentleman; low rent; good house; doing £5 under lady; plenty of scope. Apply, "X. Y. Z." (202/12), Office of this Paper.

YORKSHIRE.—Old-established Business, manufacturing town; best position; 2 minutes from 2 stations, 1 minute from 5 tram termini; Wines and Spirits; well-fitted shop; can be let off lease; reasonable offer accepted. 200/8, Office of this Paper.

CHEMIST'S Business for Disposal, owing to ill-health; returns for last year average about £28 weekly, which could be increased; price about £700. For particulars to cash purchasers apply, 202/21, Office of this Paper.

FOR immediate Disposal, small Cash Retail and Prescribing Business, near London; scope for increase, as the neighbourhood is a growing one; low price to immediate buyer; ill-health cause of sale. 203/29, Office of this Paper.

MIXED Drug and Grocery Business in Agricultural town; in same hands over 30 years; returns over £2,000; particulars to bona-fide applicants; about £700 required; no agents. Address, 202/20, Office of this Paper.

ON Sale, in good-class, thickly-populated district in Oldham, splendid Drug-stores with Medicated-wine Licence attached; doing nice trade, which could be improved; good living accommodation; rent low; accept valuation (probably about £200). Apply, in first instance, Jackson & Co., Chemists' Valuers, etc., 16 Stratford Avenue, Rochdale.

PRETTY suburb London Business; established about 9 years; Light Retail, Dispensing, Prescribing, Photographic; doing between £12 and £15 weekly; fine, well-fitted shop; good, useful stock; desirable house; plenty accommodation; rent £65; lease; side entrance, garden; near station, trams, etc. "Piper" (203/40), Office of this Paper.

£35, or nearest offer; nicely fitted Drug-store in thickly populated district; good opportunity for man who can give his whole time, and will stock; owner must sell, as he has other business. Address, 175 Victoria Road, Aston, Birmingham.

£110.—SOMERSET.—Cash Retail and Prescribing Business in manufacturing town; returns from £7 weekly; good profits; Patents small; splendid chance; good house; low rent; vendor going North cause of sale. Apply, "Rhei" (201/5), Office of this Paper.

£135.—LONDON, N.—Brisk Cash Retail, situate in grand marketing position in busy thoroughfare; tram terminus, opposite Post Office and railway station; large Prescribing connection; few Patents; net profit £140 a year; only cash customers need apply to "Opium," c/o Osborne & James, Druggists' Sundriesmen, 157 Whitfield Street, W.C.

£350 or near offer; well-stocked shop, with good house in populous district; fine opening for a Store Chemist; rent £55; returns £650. Chemist, 41 Acton Lane, Harlesden, N.W.

TENDERS.

DRUGS AND DRUGGISTS' SUNDRIES.

THE Guardians of the Poor of the Parish of St. Mary, Islington, invite TENDERS for the SUPPLY OF DRUGS AND DRUGGISTS' SUNDRIES, for twelve months commencing 27th day of March, 1910, to be delivered at the St. John's Road Workhouse, the Cornwallis Road Workhouse, the Highgate Hill Infirmary, the Hornsey Road Schools, Receiving Homes, Hornsey Rise, and the Outdoor Dispensaries of the parish.

Scaled tenders must be delivered at the undermentioned offices on or before Tuesday, March 1, 1910, addressed to the Guardians, and endorsed "Tender for"

The tenders will be opened at a meeting of the Guardians to be held on Thursday, March 3, 1910, at the undermentioned offices. The Guardians do not bind themselves to accept any tender.

Printed forms of tender (which alone will be received), and which contain conditions of contract, must be obtained from the Clerk personally, or a stamped addressed brief-sized envelope may be sent.

By order,
EDWIN DAVEY, Clerk.

Guardians' Offices,
St. John's Road, Upper Holloway, N.,
February 8th, 1910.

FULHAM BOROUGH COUNCIL.

DISINFECTANTS.

THE FULHAM BOROUGH COUNCIL is prepared to receive Tenders for the supply of DISINFECTANTS for the twelve months ending March 31, 1911.

Tenders must be made on printed forms specifying conditions of contract, provided by the Council, sealed and endorsed "Tender for Disinfectants," and delivered at the Town Hall, Fulham, S.W., by 4 p.m. on Wednesday, March 2, 1910.

The Council does not bind itself to accept the lowest or any tender.

By order,
J. PERCY SHUTER,
Town Clerk.

Town Hall, Fulham, S.W.

KENSINGTON BOARD OF GUARDIANS.

CONTRACTS FOR DRUGS AND DRUGGISTS' SUNDRIES.

THE Guardians of the Poor of the Parish of Kensington are prepared to receive TENDERS for the supply of Drugs, Druggists' Sundries, Wool, Lint, Tow, etc., to their Workhouses and Infirmary for 12 months from March 27, 1910.

Forms of tender, with all necessary information, may be obtained on and after February 18 upon personal application or by sending a stamped addressed foolscap envelope to the undersigned. Tenders must be delivered not later than 3 p.m. on Thursday, March 3, 1910, for consideration at a Board meeting to be held at that time.

By order,
W. R. STEPHENS,
Clerk to the Guardians.

Guardians' Offices, Marlborough Road, Kensington, W.,
February 10, 1910.

BUSINESSES WANTED.

ADVERTISER requires a Business yielding £400 or upwards net profits; cash given. 199/14, Office of this Paper.

ADVERTISER requires a good-class Business in London or suburbs; returns between £750 and £1,500; cash ready. In confidence, "P. R." (200/10), Office of this Paper.

MESSRS. BERDOE & FISH desire to inform intending vendors that they have a number of cash buyers still unsatisfied and desirous of purchasing Businesses returning from £800 to £2,000; strictest confidence can be relied upon and a speedy transfer assured. Address, 35 Jewry Street, Fenchurch Street, E.C.

WANTED, a genuine Business in healthy district; returning from £15 to £20 weekly; profits must be good; must bear strictest investigation; small town or seaside preferred. Send full particulars to "Pharmacist," 2 Clevedon Road, Blackpool.

WANTED, good, medium-class Retail, in or near Southport or Blackpool preferred; must be healthy district and have fair living-house attached; returning from £600 to £1,000, or larger if part could remain for a time; or Partnership with view to succession. "Blackpool" (78/60), Office of this Paper.

TO LET.

CHEMIST; first-rate opening; main road; Westcliff-on-Sea; no opposition; centre residential part; rent £40, or with house £70. Adams, 33 Elderton Road, Westcliff.

FACTORY to Let, near City; two large floors; very good light and all L.C.C. requirements; about 8,000 ft.; also offices; gas and electric laid on; net rent £130. "Odours" (78/40), Office of this Paper.

GOOD opening for Chemist; S.E. district; specially suitable for branch or young beginner; includes 2 rooms adjoining shop, and light basement; rental, including rates, taxes, and water, very low. Apply, "S. J.," 7 Lee Road, Blackheath, S.E.

IRLAM (8 miles from Manchester).—To be Let, up-to-date Shop in best position on main road, with good living accommodation; rent £28 per annum and rates; splendid opening for Chemist and Druggist in this rapidly growing district; population increased 50 per cent. in 10 years. Apply, Kay, Architect, Irlam.

MEDICAL HALL to Let; provincial town, North of Ireland; splendid opportunity; good position; suit Pharmaceutical Chemist. Particulars to "Medical" (197/22), Office of this Paper.

FOR SALE.

A BARGAIN.—Chemist's Fittings, Stock, etc.—Up-to-date Mahogany Fittings; Drug, Fixture, Dispensing-screen, Serving-counter, and Case; Wall-cases, Shop-rounds, Recess Labels, Ointment-jars, Scales, Mortars; small stock Drugs, Sundries, etc. Armour, 135 Arkwright Street, Nottingham.

COMplete Pill Plant for Sale.—Pfeiderer's Kneader, hand and power, 14-lb., capacity; Pindar's Ripper, hand and power; Pindar's Pill-cutter, treadle and power; Niblett's Pill-rounder, hand and power; all in good working order, almost equal to new; having no further use will be sold cheap; reasonable offer will be entertained. Apply, 179/9, Office of this Paper.

FOR Sale, Stock and Fixtures of Chemist's shop in Worcestershire; good all-round stock of Drugs and very few Patents; must be sold at once; no reasonable offer refused. 200/14, Office of this Paper.

PARTNERSHIPS.

ADVERTISER is desirous of meeting with gentlemen requiring a Manager or Senior, with view to Partnership or succession; could introduce or develop Photographic and Optics; expert Extractor; experienced in high-class Dispensing businesses; also town and country trade; could invest £500; references exchanged. Apply, 195/01, Office of this Paper.

PARTNERSHIP.—An exceptional opportunity of entering one of the best-established high-class houses in the trade; capital required not less than £5,000; preference given to an efficient, energetic, qualified gentleman, not more than 35 years of age. Apply, in first instance, by letter, with full particulars and experience, to "H." c/o J. H. Smith, Solicitor, 20 Finsbury Square, E.C.

PHARMACY, old-established, international, enjoying splendid central position in Rome; proprietor seeks Partner with small capital. Crescenzi, 46 Via Ludovisi, Rome.

WHOLESALE Partnership.—Vacancy occurs for a Partner, with capital, in Wholesale Drug-house; Wholesale experience Managing and Buying absolutely essential; correspondence considered confidential. Address "Private" (75/16), Office of this Paper.

AGENCIES.

ADVERTISER, calling on Chemists, Drug-stores, etc. (Manchester district), seeks good Agency for Packed Goods or Sundries; commission only; could provide room for stock if required. 198/39, Office of this Paper.

AGENCY wanted for a few good Proprietaries, Veterinary or otherwise; to be advertised in local press with our name and address as sole local agents. Jones, Chemist, Watford.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

NATURE OF ADVT.	REPLIES
UNQUAL. MANAGER	41
ASSISTT	32
TRAVELLER	31
ASSISTT (JUNIOR)	28
"	23
" (QUAL.)	20

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR—millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

REPLIES TO ADVERTISEMENTS may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that the Advertiser pays postal charges in such cases, and perhaps this reminder will obviate the necessity of the constant return of remittances which forgetfulness of this fact entails.

RETAIL.

ALDERSHOT.—Wanted, immediately, smart Junior Assistant; interview essential. State full particulars in first application, Allen & Lloyd, Aldershot.

BRIGHTON.—Wanted, Junior Assistant (outdoors), about 20, for Cash Retail and Dispensing business, half-day off weekly; must be good worker and obliging Counterman. Apply, giving full particulars, salary required, and enclose photo (if possible), to "Businesslike" (201/33), Office of this Paper.

BROMLEY (Kent).—Unqualified, gentlemanly Assistant; not over 24; outdoors; reliable references; Photo. knowledge; abstainer. Full particulars, salary required, enclose photo, H. Francis, M.P.S., 22 High Street, Bromley, Kent.

CAPE COLONY.—A qualified Assistant required; must have had good all-round experience in Photography and able to do Developing and Printing; 3 years' agreement; passage paid out; progressive salary. Apply, by letter only, Lenuon, Ltd., 54/58 Queen Elizabeth Street, S.E.

CHINA.—Wanted, a smart, intelligent man, capable of taking entire charge of Aerated-water Factory; aged 24 to 30 and married; must have had first-class experience in all departments of the trade and be capable of managing staff; 4 years' agreement; passage paid out and home. Address, "China," 64 Crutched Friars, E.C.

INDIA.—Wanted, by Messrs. Bathgate & Co., Chemists, Calcutta, Minor man; single; age under 28; must have had good Retail experience and first-class character; passage paid out and home at the expiry of the 4 years' agreement. Apply, stating age, experience, etc., to 198/11, Office of this Paper.

LEYTON.—Unqualified Assistant; indoors; 24; must be gentlemanly in appearance and address; good Salesman, Dispenser, and Window-dresser; experienced enough to take occasional charge; day off per week; photo or personal interview essential; please send particulars of situations since apprenticeship and salary required. Leighton, 555 Lea Bridge Road, Leyton.

LICHFIELD.—Wanted, Junior Assistant; outdoors; unqualified; must have good Dispensing experience. Apply, stating age, height, and salary required, Charrington, 17 Market Street, Lichfield, Staffs.

LIVERPOOL.—Wanted, immediately, qualified Branch Manager; age 27 to 35. Apply, stating full particulars, together with latest references, to "Alpha," c/o Evans, Sons & Co., Hanover Street, Liverpool.

LIVERPOOL.—Wanted, Manager, married, qualified. Optics, abstainer, permanency, to take charge of branch. Reply, giving the usual particulars as to age, salary, references, etc. (no notice taken where these are not given), Burnett, 116 West Derby Road, Liverpool.

LONDON, W.—Immediately, Junior Assistant; good Dispenser; accustomed to West-End business. Rouse & Co., 12 Wigmore Street, W.

LONDON, W.—Qualified Assistant for first-class Retail and Dispensing business; outdoors; hours 8.30 A.M. to 8.30 P.M., half-holiday weekly from 2 P.M., 3 evenings on duty to 10 P.M., alternate Sunday duty 11 A.M. to 1 P.M. and 6 P.M. to 9 P.M.; good salary to capable man. H. L. Douthwaite, Chepstow Mansions, Westbourne Grove, W.

LONDON, W.C.—Junior or Improver (outdoors) as Assistant Stockkeeper; must be intelligent and hard-working; no objection to one with Wholesale experience. Give full particulars and salary required to Frizell, Chemist, Leicester Square, W.C.

LONDON, W.—Unqualified Assistant; outdoors; under 30; Counter, Dispensing, Stock, with Store experience and knowledge of Photography preferred. Apply, personally, Allen's, Ltd., 155 Praed Street, Paddington.

LONDON, S.E.—Registered Assistant for a Dispensing, Prescribing, and Extracting Branch business; indoors preferred, or can have rooms at Branch if outdoors. Apply to D. U. Still, Old Charlton, S.E., stating experience, single or married, with reference, salary, etc.

LONDON, E.C.—Qualified Assistant as Senior; competent to Manage for quick City business. Apply, B. Hooper & Co., Chemists, 43 King William Street, London Bridge, E.C.

MANCHESTER.—Wanted, Junior; hours 7.30 to 8.30; no Sunday duty and time allowed for classes. Morten Dodge, Pharmacist, 1 Albert Square, Manchester.

MIDLANDS.—Junior Dispenser wanted, at once, for doctor's Surgery; must be thoroughly competent man and possess good references; another kept. State age, experience, etc., to "Medico" (199/12), Office of this Paper.

PONTYPOOL, MON.—Qualified Chemist wanted to undertake sole Management of business; Light Retail, Garden Seeds, Photo; must be active and reliable; state experience and salary; age between 30 and 40; to live indoors with another Assistant and housekeeper. Apply, Godfrey C. Wood, Pharmacist.

SOUTH HANTS.—Managing Assistant in a market town; outdoors; age 30 to 35; unqualified; permanency; must be a good all-round gentlemanly Counterman, Prescriber, Extractor, Photographer; good stockkeeper; up-to-date Retail; hours easy; no Sunday duty; early closing; must have reliable references; vacancy in March. Apply, in first instance, with photo (if possible), "South Hants" (200/12), Office of this Paper.

SITUATIONS OPEN *(continued).*

SOUTHSEA.—Wanted, a qualified Assistant for Light Retail business; outdoors; splendid opportunity of acquiring a knowledge of Mechanical Dentistry. Please give full particulars of experience, height, salary, etc., in first letter, to Page, Chemist, 179 Albert Road, Southsea.

TUNBRIDGE WELLS.—Junior Assistant; high-class Dispensing business; 2 kept. State usual particulars, salary required, and enclose photo, to Howard & Son, Pharmacists, Tunbridge Wells.

TUNBRIDGE WELLS.—Wanted, for March 16, Assistant, unqualified (outdoors), for Light Retail and Dispensing; with knowledge of Optics and Photography preferred; easy hours. Apply, giving full particulars, with references and salary required, to A. G. Harden, Pharmacist, 46 Grosvenor Road, Tunbridge Wells.

WEST BROMWICH.—Junior Assistant; unqualified; outdoors; must be trustworthy and obliging; Light Retail business near Birmingham; reasonable hours. State full particulars and salary required to Allen, Chemist, West Bromwich.

WOLVERHAMPTON.—Qualified Assistant wanted. Apply, stating age, height, salary required (outdoors), and giving reference, to F. A. Willecock, 71 Victoria Street, Wolverhampton.

YORKS (E.R.).—Qualified Branch Manager wanted; married preferred; must be thoroughly trustworthy, energetic, and capable of developing the business; suitable man will be given an interest in the business. State full particulars, age, height, salary, and give last two references, to 201/37, Office of this Paper.

A COMPETENT Assistant required in a good-class Light Retail and Dispensing business on the South East Coast; must be a reliable Dispenser. State salary required, age, experience, etc. (outdoors), if possible enclose photograph, Julian Horrell & Co., Dispensing Chemists, Broadstairs.

CHEMISTS' Assistants.—Wanted, for a London business house, a qualified man as Dispenser; hours 9 to 6.30, and Saturdays to 2.30 p.m.; no night or Sunday duty. Apply, by letter, stating age and salary required, to "Mel," c/o Street's, 30 Cornhill, E.C.

COMPETENT Assistant wanted for business in small market town near South Coast; single man preferred; please give particulars of all situations held, age, height, and salary required (outdoors). "Dorset" (200/13), Office of this Paper.

DISPENSER required by a doctor in country practice; salary 30s. (outdoors); not over 25 years of age. Apply, with testimonials, to R. Sumner & Co., Ltd., 50A Lord Street, Liverpool.

FROM March 1st, Manager for Branch; house and gas found. State salary expected and full particulars to R. B. Lee, Chemist, Litherland, Liverpool.

IMMEDIATELY.—Unqualified, experienced Assistant; 30 to 45; Prescriber, Window-dresser, smart Salesman, and good Extractor; permanent and progressive position for a good man who can put brains and energy into the business; easy hours; outdoors; references must bear strictest investigation. All particulars in first letter, or personally, after 7 p.m. or Sundays, Challis, King Street, Southall.

JUNIOR Assistant, aged 21 to 24, required, at once, for post and to assist at Counter; short hours. Apply, Mr. Longstaff, John Barnes & Co., Ltd., 191 to 217 Finchley Road, N.W. (opposite Finchley Road Metropolitan Station).

JUNIOR, for middle-class cash business in Birmingham suburb, within easy reach of City; if desired, time off could be arranged for study; suit Minor student attending lectures or School of Pharmacy; liberal treatment to gentlemanly, well-educated man; outdoors. Full particulars, Brown & Fiddock, Pharmacists, Bearwood, Birmingham.

QUALIFIED Assistant; accustomed to brisk Retail; satisfactory references; permanency if suitable; no Sunday duty; one evening each week; hours 8 to 8, Saturdays to 10. State age, height, salary, references, and enclose photo to Managing Director, Hodder & Co., Ltd., 5 Nelson Street, Bristol.

QUALIFIED Assistant; outdoors; good Dispenser with continental experience; preference given to one who can speak French fluently; hours moderate. Give full particulars of experience, height, age, and salary required, to Frizell, Chemist, Leicester Square, W.C.

QUALIFIED Branch Manager wanted, at once; accustomed to good-class business; must be energetic and resourceful; references must bear the strictest investigation. Apply, enclosing recent photograph, to 204/24, Office of this Paper.

SMART, energetic, young Chemist (single) wanted to introduce suitable high-class Specialities to doctors and arrange depôts; must have practical experience and be acquainted with the customs of profession and trade; good opening for industrious and willing man; salary and commission. Give fullest particulars under 199/30, Office of this Paper.

STUDYING Assistant required, to take charge small Branch Drug-stores, taking about £5 weekly; must be smart and good Prescriber; salary £1 (outdoors) and 10 per cent. on increase; one prepared to stay about 12 months preferred. Full particulars in first letter, 201/19, Office of this Paper.

WANTED, a really good Manager; must be smart business man; good salary and share of profits. Apply, enclosing full particulars and photograph, to 80/9, Office of this Paper.

WANTED, a Welsh-speaking Dispenser and Surgery Attendant. Apply, references, etc., to "Cymro" (71/27), Office of this Paper.

WANTED, qualified Assistant, used to Mixed Country Retail; outdoors; fullest particulars; permanent if suitable. Twelve, Whittington Moor, Chesterfield.

WANTED, for a suburb of Leeds, smart Chemist to take charge of a small high-class branch shop; reasonable hours; no Sunday duty; references must be absolutely satisfactory. Give full particulars, stating wages required, to Gibson, 2 Crown Chambers, Hunslet Road, Leeds.

WANTED, an Assistant, about 23 to 25, qualified, for Dispensing business; London and South Coast experience preferred. State salary (indoors), experience, and full particulars, 201/36, Office of this Paper.

WANTED (in early March), for seaside medical practice, Lady Dispenser-Bookkeeper; 14s. indoors, 21s. outdoors; while indoor would be required to supervise housekeeping; must be quick and neat Dispenser. Apply, with full particulars of previous experience, to "X. Y." (200/24), Office of this Paper.

QUALIFIED Assistant for Mixed Wholesale and Retail; indoors, but away from shop. Merry & Parker, Ilkerton.

HERE'S A CHANCE FOR BOTH SEXES!!!—Sanitary Inspectors—School Nurses—Lady Health Visitors. £100-£350. All those desiring change should qualify for above appointments; postal course of lessons now commencing for examinations in London and Provinces, Scotland, Ireland, and Colonies; 450 successful candidates; fully half had no previous sanitary knowledge; fee 25s. Mushens, Sanitary Expert, Sunderland.

WHOLESALE.

COMPETENT man, with a good knowledge of Wets and Dries, required for Wholesale Druggist's, to control small department of three or four hands. State full particulars and wages required to 200/29, Office of this Paper.

EXPORT OFFICE.—Wanted, a young man with a good knowledge of the Drug and Allied Trades, to assist buyer. Apply, by letter only, giving full particulars, "E. B. R.," 10 Northumberland Avenue, Wanstead Park, E.

FEMALE Assistant, with Hall qualification; knowledge of Metric System and French essential; applicants must be young and have a commanding appearance. Please state age, salary, and enclose photograph, 80/7, Office of this Paper.

LABORATORY Hand wanted by London Druggist; must have had Toilet Goods experience and be a practical maker of Granular Effervescent Preparations; a good Packer is also required. Write, giving full particulars, to Secretary, Crayford Mills, Stratford, E.

LABORATORY.—Young man required, accustomed to general work of same, for a London firm of Wholesale Druggists. Apply, stating salary, experience, etc., to "Statin" (78/54), Office of this Paper.

LONDON.—Smart and intelligent lad, with experience, wanted for Pill Department. State age, experience, and wages to 204/16, Office of this Paper.

MANAGER and Traveller wanted for Patent Medicine just about to start; small salary to commence. Write S., 587, c/o Shelley's Advertising Offices, 38 Gracechurch Street, E.C.

PHARMACIST.—Required, immediately, in the works of a large firm of Manufacturing Chemists, a young Pharmacist; previous experience in a Manufacturing house not essential, but applicants must be methodical and energetic and have unexceptional references. Apply, "D. S." (76/53), Office of this Paper.

PHILIP HARRIS & CO., LTD., Pharmaceutical Specialists, Birmingham, require the services of a highly trained young Pharmacist especially skilled in the production of high-class Pharmaceutical preparations; must possess and apply a sound knowledge of Pharmacy and Pharmaceutical Chemistry and be thoroughly accustomed to the routine work of the Manufacturing Laboratory.

TRAVELLER, with first-class connection among Veterinary Surgeons and others, required by well-known Veterinary Drug-house to Represent them; the ground will be practically unrestricted and a good salary and commission will be paid. Applications must state fully past experience, etc., to "Z. Y. 947," c/o Messrs. Deacons, Leadenhall Street, E.C.

TRAVELLERS wanted for London and suburbs, also for Scotland, with reliable connection among Chemists, Stores, Hospitals, and Surgical-instrument makers, for good saleable lines; small salaries; good commission. Send particulars of ground covered, 201/8, Office of this Paper.

WANTED, active and intelligent Pill-maker for work near Newcastle-on-Tyne; a knowledge of Chemistry and Machines an advantage; good wages paid to suitable man. 197/29, Office of this Paper.

WANTED, Clerk with experience of Wholesale Druggist trade; able to keep books, capable correspondent, and with knowledge of Chemistry preferred; first-class references essential. Apply, in confidence, by letter, stating salary required, to "B. D. C." (198/13), Office of this Paper.

WANTED, young man with knowledge of Pill Coating. Apply, "Arabic" (79/30), Office of this Paper.

WANTED, immediately, Junior Clerk (Male) accustomed to Typewriting and Invoicing; must have had some experience in the Drug-trade. Apply, by letter, to Wright, Layman & Umney (1909), Ltd., Southwark, London.

SITUATIONS WANTED

(Colonial, Indian, and Foreign).

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of **6d.**

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

CANADA.—Practical Varnish-maker would be glad to hear of firm desiring to commence the Manufacture of Varnish or already in the trade, and requiring Works Manager; thoroughly well up in superior Varnishes for coachmakers, decorators, railway companies, japanners, etc.; can equip works, buy materials, control workmen, get out costs, etc.; highest references. "A. F.," c/o Reade Brothers, Wolverhampton, England.

ABROAD.—Assistant; English; good experience and references; Photography; permanency preferred; unqualified; aged 21. 202/3, Office of this Paper.

COLONIES or India.—Advertiser desires to Represent good house handling Chemical Apparatus, Scientific Instruments, etc.; thorough knowledge of Colonial and Indian requirements. 200/37, Office of this Paper.

SITUATIONS WANTED

[HOME] RETAIL.

LONDON.—Qualified; 23; experienced; outdoors; permanency. Walters, 23 Cromwell Place, South Kensington.

IMPROVER; 19; tall; preferably with other assistants. Roberts, 137 Queen's Crescent, N.W.

QUALIFIED; 26; tall; all-round experience; disengaged. Johnson, 36 Large's Street, Derby.

MANAGER or Senior; qualified; 32; good references; disengaged. Bach, Blithfield, New Malden.

JUNIOR; 23; unqualified; Dispensing, Counter; good references. "Rosace," 58 Cromwell Road, Caversham.

RELIEF Assistant; Monday evening, Thursday and Saturday afternoons excepted. 28, Albert Bridge Road, S.W.

QUALIFIED; 24; permanency or Locum; abstainer; good experience; disengaged March 3. 195/7, Office of this Paper.

LONDON; experienced Counter-hand; 22; window-dresser and Dispenser; abstainer. Patterson, William Street, Tunbridge Wells.

ASSISTANT (25), first-class Dispensing experience, seeks berth, preferably seaside or provincial town. 197/25, Office of this Paper.

ASSISTANT; moderate salary; energetic and obliging; Store and Retail; good salesman; unqualified. "Chemist," 99 Mile End Road, E.

RETAIL.—Assistant; 24; unqualified; experienced; Dispensing, Counter; good references; capable. "M. M.," 23 Elm Grove, Salisbury.

JUNIOR or Improver (20) seeks situation in good-class business; 31 years' experience; good references. Apply, 199/32, Office of this Paper.

DISPENSING or Retail; long, varied experience; trustworthy man; moderate terms; references. "Statim," 275 Waterloo Road, S.E.

QUALIFIED (22), tall, seeks situation in Midlands or North; good experience and references; outdoors preferred. Teare, White Road, Sutton Coldfield.

UNQUALIFIED; Manager or otherwise; Locum, permanency, or part-time; unqualified; age 33. "Aurant," 42 Parkhurst Road, Manor Park, Essex.

YOUNG lady, experienced in Dispensing, desires post in Doctor's family; small salary to live in; good reference. "E.," 25 Richborough Road, Cricklewood.

LONDON.—Junior (23) requires good-class Dispensing berth (indoors) three or four evenings, for study; good references. Rose, 84 Broad Street, Reading.

MANAGER or Senior; qualified; married; lifelong total abstainer; Photography, Optics; Extractor; good references. Apply, 195/1, Office of this Paper.

QUALIFIED, middle-aged man as Manager; steady habits; good Counterman and Prescriber; can give satisfaction. Address, "Veritas," 80 Clerkenwell Road, E.C.

JUNIOR; 20; 5 ft. 7 in.; good all-round experience in Photography, Dispensing, Stock, Counter, and Agricultural. Apply, Wilson, c/o Oldham, Chemist, Wisbech.

JUNIOR; 21; Photography and Dispensing; 4½ years' experience; height 5 ft. 10 in.; Liverpool or Birmingham preferred. Apply, "C. T. B.," c/o Bishop, Chemist, Welshpool.

PERFECT knowledge of high-class Photographic business, also Chemistry, etc.; good address and first-class salesman; highest references. "Optician" (197/3), Office of this Paper.

EVENINGS after 5; expert Dispenser, good Counterman; long experience in evening part-time work; highest references; qualified; reliable. "Euclid," 26 Wontner Road, Balham.

FULLY qualified Swiss Chemist, French and German experiences, excellent references, knowledge of English and English Pharmacy, desires situation, London. Gacot, 199 Camberwell Grove.

MANAGER; 31; qualified; excellent all-round experience; Counter, Dispensing, Prescribing, Photography; good references; abstainer; single. W. L. Lawrence, c/o Mr. Pickard, Castle Park, Appleby.

BRIGHTON or District.—Dispenser (28), with well-known London firm, desires change; thoroughly experienced; Photography, Prescribing, etc.; no immediate hurry; outdoors. Vitae, 12 Merton Avenue, London, W.

AS Manager or Senior, qualified, middle-aged. Stopping, Extractions, etc., thorough experience of the Retail, desires engagement; London or South Coast preferred, but not essential. Furuival, 60 Uppingham Road, Leicester.

QUALIFIED; elderly; healthy and active habits, thoroughly trustworthy and conscientious; good Prescriber and Counterman; varied experience; married; no family; leaving on account of Partner been taken in; well recommended by present firm Brauch Manager or Senior; could travel. 191/38, Office of this Paper.

SITUATIONS WANTED (continued).

EVENINGS, qualified, after 6 P.M. "W. G.," 25 Gertrude Street, West Brompton, S.W.

LOCUM or Manager; qualified; 36; good experience. "Chemist," 49 Seel Street, Liverpool.

MANAGER or Locum; London or suburbs. "A. M.," 39 Theobald's Road, Leyton, E.

RETAIL, Dispensing, Optics; Experienced Lady; in or out. "City," 348 Gloucester Road, Bristol.

DISENGAGED; unqualified; several years' experience. R. M. Lelcan, 2 Rockville, Hautville, Guernsey.

LOCUM; qualified; excellent references; disengaged. "Caius," 21a Castletown Road, West Kensington.

UNQUALIFIED; good, varied experience; outdoors; disengaged. "J.," 129 Russell Avenue, Wood Green, N.

EXPERIENCED, unqualified Assistant; 27; tall; at liberty; Haigh, Helme Leigh, Meltham, Huddersfield.

SURGEON'S Dispenser and Bookkeeper; experienced. "Dispenser," 206 Victoria Dock Road, Tidal Basin, E.

ASSISTANT; 24; 8 years' experience; good Dispenser; excellent references. "Statim," 38 Washington Road, Sheffield.

QUALIFIED Lady Dispenser disengaged; Hospital and private experience; over 5 years in last post. 199/5, Office of this Paper.

MANAGER; qualified; thorough Prescriber, Extractor; Photographic and Agricultural trade. Sumner, Chemist, Gloucester.

QUALIFIED; elderly; thoroughly trustworthy; whole or part-time; excellent testimonials; outdoors. 264/17, Office of this Paper.

JUNIOR; 22; 6 years' experience; Dispensing, Counter, Photography; good references; at liberty. Davies, 14 Market Place, Cirencester.

HOSPITAL, Institutions; Relief Dispenser; mid-age; experienced, reliable, registered. "M.P.S.," 51 Cambridge Road, Sidcup, S.E.

ASSISTANT; qualified; 22; good Dispensing and Counter experience; outdoors; good references. Wallington, Lower Walton, Warrington.

JUNIOR; 18½; 4 years' experience; disengaged March 6; Liverpool or district preferred; in or out doors. "Junior," 2 Cordley Street, West Bromwich, Staffs.

JUNIOR; 21; 5½ years' high-class Dispensing experience; disengaged about March 1; West-End preferred. Crews, c/o Mr. Senior, Pharmacist, Eastbourne.

QUALIFIED; aged 29; good Prescriber, Dispenser, Counterman, Window-dresser, Photography; as Senior or Manager. "Aspirin" (198/4), Office of this Paper.

WALES (or near).—Permanency or Locum; many years' varied experience and capable of Managing; thoroughly trustworthy; disengaged. Jones, Medical Hall, Lampeter, Cardiganshire.

JUNIOR Assistant (21), well up in Counter trade, good Dispenser and Window-dresser, desires engagement (preferably within 12-mile radius of Ilford); well recommended. "F. G.," 17 Percy Road, Goodmayes, Essex.

GERMAN qualified Druggist, good practical experience in the Wholesale Drug-trade, thorough knowledge of Photography, seeks situation; moderate salary; excellent testimonials. Write to 204/13, Office of this Paper.

DISPENSER; Minor qualification; Chemists, Stores, or Surgeon; West-End experience; good references; 15 years last situation; Locum or permanency; S.W. district preferred; outdoors. "Chemist," 85 Elspeth Road, Clapham Common, S.W.

BRANCH Manager; married; 35; would live on premises; town and country experience; Photography, Dispensing, Optics; Veterinary; accurate, reliable, and energetic; unqualified; disengaged on week's notice. "H. L.," 73 Colliers Water Lane, Thornton Heath.

QUALIFIED; 24; West-end experience; outdoors; London preferred. 203/26, Office of this Paper.

MANAGER; qualified; experienced; highest references. "W.," 13 Jerdan Place, Waltham Green, S.W.

QUALIFIED; first-class Counterman, Dispenser; London or near. "Chemist," 53 Marsham Street, Maidstone.

QUALIFIED; 24; 5 ft. 9 in.; outdoors; abstainer and reliable; London preferred. Wilson, 7 Pall Mall East, S.W.

AS Porter; good reference, Wholesale or Retail; London preferred. E. Whatley, 29 St. John's Road, Margate.

ASSISTANT, married, seeks berth to live on premises; reliable; excellent references. 200/27, Office of this Paper.

UNQUALIFIED; 17 years' good experience (London, etc.). "Chemicus," 35 Crescent Grove, Clapham Common.

AS Improver; 3 years' experience; Counter and Dispensing; London or near. Write, 201/38, Office of this Paper.

PHARMACEUTICAL Chemist recommends his late Manager; thoroughly reliable. "D." (204/5), Office of this Paper.

30; tall; good Dispenser, Manage Drug-stores; similar experience; country preferred. 201/23, Office of this Paper.

MANAGER view to succession; single; wide experience; highest references; Lancs preferred. 200/32, Office of this Paper.

STOCKKEEPER, Photography; reliable handy man; salary moderate. Willbourn, 85 Swinerton Street, South Hackney.

MANAGER or Senior; tall, good appearance; abstainer; Prescriber, Photography; qualified. 204/1, Office of this Paper.

LONDON, City or Suburbs; as Manager or Senior; disengaged; excellent references; qualified. 260/21, Office of this Paper.

LADY Assistant (young) desires situation; 6 years' good all-round experience; Photography. Apply, 200/40, Office of this Paper.

ASSISTANT or Manager; Mixed not objected to; good references; unqualified; 32. "W.," 25 Fleming Road, Waltham-stow.

JUNIOR or Improver, 3½ years good Cash Retail, desires Dispensing. State particulars, "Thymol" (201/10), Office of this Paper.

PERMANENCY; unqualified; outdoors; 28; expert Dispenser, good Window-dresser, Photography. 201/12, Office of this Paper.

MANAGER; qualified, experienced, reliable; London preferred. "Aspirin," Barron, Harveys & Co., Graham Street, City Road, N.

REGISTERED desires appointment as Inspector of Branches; no objection to relief duty occasionally. 204/22, Office of this Paper.

ASSISTANT; unqualified; Extractor; London experience; country preferred; no Stores; outdoors. "Aspirin" (200/31), Office of this Paper.

SOUTH COAST.—Assistant; energetic, experienced; abstainer; outdoors; first-class reference; interest or permanent. "H.," 27 Colchester Street, Pimlico.

REQUIRED, London or near, situation as Improver; 5 years' experience; good knowledge of Photography; time for study if possible. 203/1, Office of this Paper.

APRIL 1; Assistant, quick, accurate Dispenser, to first-class Chemist; near schools, view early qualifying; permanency; 26. "Cinchona" (201/24), Office of this Paper.

DISENGAGED; active; reliable, middle-aged Assistant; single; Locum, Branch, or permanency; 3 years late reference; abstainer; not registered. "B. H.," 43 High Street, Uxbridge.

LOCUM for mouth or two; qualified. "Jama," c/o Martin, Polpar, Par, Cornwall.

JUNIOR; 19½; tall; 4 years' experience; disengaged. Hood, Chesterton, Cirencester.

UNQUALIFIED as Assistant or Dispenser; used to Store trade. 38 Bowood Road, Sheffield.

WANTED, situation as Dispenser to doctor; 23 years' experience. Dobbs, Danes, Hindley.

MANAGER; qualified; married; 29; good experience. Temperton, 93 Kennington Park Road, London.

LOCUM; qualified; experienced; liberty March 15; booking dates forward. Cook, Chemist, Cleethorpes.

MANAGER, Assistant; London Store experience; 34; unqualified. "Statim," 47 Weltje Road, Hammersmith.

LADY desires post as working Housekeeper; 6 years with Chemists. "N.," 97 Belgrave Road, Ilford.

EXPERIENCED, qualified Lady Dispenser; bookkeeper; London preferred. "C.," 8 Tillington Terrace, Hastings.

DISENGAGED; unqualified; 38; 16 years in London; good varied experience. Fletcher, 95 Church Street, Whitby.

PERMANENCY; qualified Manager; 57; single; active! Prescriber; disengaged. "O. W.," 4 Museum Street, W.C.

LADY Dispenser desires post; Doctor preferred; small salary. Miss New, 6 Endsleigh Street, W.C. Telephone, City 1934.

UNQUALIFIED; 22; tall; Dispensing; outdoors; Lancashire preferred. Hodgson, c/o Richardson, Chemist, Blackpool.

MANAGER, Senior, Locum; 39; Major; good references; experienced; disengaged. "T.," 8 Shirley Road, Bedford Park, W.

UNQUALIFIED; disengaged; age 31; Locum or permanency; references. Apply, "Statim," 30 Buckingham Street, Brighton.

NO salary; house and commission; registered Dentist, experienced Chemist; 45; Management; London; Prescriber. 204/40, Office of this Paper.

M.P.S.; Manager; experienced; middle-age; active, energetic; moderate salary. "Optician," 69 Leytonstone Road, E.

COMPETENT Assistant; 36; well up in Dispensing, Counter, and Photography; good references. "Aspirin," 51 Estate Buildings, Huddersfield.

DISPENSER; 22; unqualified; excellent references; disengaged March 5; Doctor or Institution; locality no object. Morris, Grovedale, Hawarden Road, Colwyn Bay.

MANAGER; qualified; 35; married; country preferred; excellent experience; last berth 7 years. State full particulars, "M.P.S.," 108 Adelaide Road, Liverpool.

A QUALIFIED Chemist is open to position of Manager or Locum; reliable, competent; excellent experience; highly recommended. "N.," c/o 11 Mayfield Place, Eastbourne.

MANAGER or Senior; qualified; middle-aged; active; first-rate all-round experience; Photography, Agricultural. "Chemists," Mandyske, Holmrook, Cumberland.

ASSISTANT; unqualified; good Counter, Dispensing, Photographic experience; now disengaged; could Manage branch. Playfoot, 44 Hollydale Road, Peckham, S.E.

MANAGER; experienced; Major; married; abstainer; highest references; reasonable salary for good work; permanency. Address "Apex," 4 Elliott Street, Liverpool.

MANAGER or Senior; qualified; 33; tall; first-rate all-round experience General, Retail, Dispensing, Prescribing, etc.; disengaged. C. H. Reid, Desford, near Leicester.

LOCUM; Branch Manager or Assistant; qualified; 27; best-class Dispensing and Retail experience; good Prescriber; excellent references. "Pharmacist," 6 Ash Grove, Harrogate.

JUNIOR; 5½ years' experience, including London suburb; Birmingham or Manchester districts preferred. Particulars, references "Theophilus," "Rosencath," Bromley, Kent.

QUALIFIED Assistant, best experience, excellent testimonials, 4 languages, desires situation in Liverpool or neighbourhood. "Swiss Chemist," Queen Street Etoile, Waterloo, Liverpool.

BRANCH Manager or Assistant; unqualified; 31; married; good Counterman, Prescriber, Dispenser; excellent references; accustomed to Manage. "Salicin," 36 Arthur Road, Holloway, N.

LOCUM; permanency preferred; unqualified; Hall qualification; age 46; town or country; Extractor; single; energetic; disengaged; good experience. "Statim," 164 Powis Street, Woolwich.

MANAGER; qualified; 40; over 20 years' all-round experience, including Stores; permanency preferred; good Prescriber, Dispenser, Salesman; moderate salary. "Chemist," Waberthwaite, Cumberland.

QUALIFIED; age 23; height 5 ft. 10 in.; first-class Dispensing and West-end experience; outdoors; London or South Coast preferred. Apply, T. Gilmour, c/o Anderson, 243 Harvest Road, London, N.W.

QUALIFIED; 30; first-class London and Continental (French and German) experience; Manager or position of trust, with view to succession; Partnership entertained. "Theta" (200/26), Office of this Paper

25/-; Assistant or Branch Manager; good Prescriber, Salesman, and Widow-dresser; used to Agricultural trade; 10 years' reference from last employer. "Bromo," 143 Horsedge Street, Oldham, Lancs.

WHOLESALE.

TRAVELLER, calling upon Chemists, wants side-line. "J. N.," (199/29), Office of this Paper.

PACKER (good); Export and General experience; excellent reference. 199/23, Office of this Paper.

TRAVELLER, 12 years' connection, Lancs, open for good commission. 202/4, Office of this Paper.

PERFUMER, experienced, very successful new blends, desires appointment. 204/3, Office of this Paper.

TRAVELLER; Yorkshire and Eastern Counties; Drugs or Sundries. "Reliable," 72 Grosvenor Road, Twickenham.

SITUATION required, Wholesale, London; Sundries, Surgical Requisites, Drugs. "W.," 123 Saltram Crescent, Paddington.

DRY Counter or Stockkeeper; 17 years' experience; excellent references; abstainer; disengaged. Write, 204/19, Office of this Paper.

LABORATORY.—Major man desires position; varied experience in Analytical work and knowledge of the Manufacturing. 206/4, Office of this Paper.

REPRESENTATIVE.—Gentleman open to Represent a good firm, R. South of London; good appearance, dress well. "Summerhill," Sydenham Road, Croydon.

ASSISTANT (24), unqualified, 9 years' Retail experience, desires situation in Wholesale; good references; willing to travel. M. Mountford, 23 Elm Grove, Salisbury.

ESSENCE-MAKER; experienced; Mineral-waters, Culinary Caramel Paste, Colours, etc.; excellent credentials to good house. "W. H.," 18 Grove Lane, Camberwell, S.E.

REPRESENTATIVE or Wholesale, Drugs, Sundries, good all-round knowledge Vaccines and Serum Therapy; smart appearance; good Salesman. 201/230, Office of this Paper.

QUALIFIED man seeks position in Wholesale establishment where experience can be gained; small investment probable; nominal salary to commence. Replies to 202/39, Office of this Paper.

TO London Travellers calling upon Doctors.—Assistant requiring post will heavily remunerate Traveller hearing of opening. Write and will call or send all particulars, 199/37, Office of this Paper.

SITUATIONS WANTED (continued).

GENTLEMAN, young, good appearance, live connection among Medical Men and Chemists, is open to Represent first-class Wholesale house or agency. Apply, "Energy" (204/33), Office of this Paper.

CLERK; 29; capable; 13 years' experience. Wholesale Chemists' and Druggists and Druggists' Sundries; invoicing and General office routine; good references. T. Graham, 142 St. Thomas' Road, Finsbury Park, N.

REPRESENTATIVE or Agency; 37; small salary and commission; thorough knowledge of Retail requirements, also Dental; smart appearance and address; tall. "Energetic," 34 Cannon Street, Middlesbrough.

REPRESENTATIVE calling upon Doctors, desires additional Agency; enterprising firm with good Speciality essential; successful interviewer; part-expenses with commission. "Digitals" (201/20), Office of this Paper.

MALT EXTRACT.—Situation wanted by Brewer-Engineer, who thoroughly understands how to make Diastatic Malt, also how to brew it and boil the liquor to make Diastase and Diastase Extract. "Brewer" (197/4), Office of this Paper.

GENTLEMAN, with nearly 20 years' travelling experience, wishes an inside appointment or Management of small Wholesale; very good Retail and Wholesale experience; Sundries, Packed Goods, or Specialities. Guild, 10 New Brown Street, Manchester.

MANUFACTURING Pharmacist, F.C.S., with London experience, General Manufacturing and Specialities, Analysis, and Drug-standardising, desires appointment in Wholesale house; practical knowledge of all departments. 204/12, Office of this Paper.

EXPERIENCED Representative seeks re-engagement; 18 years' sound, valuable connection, North of England and Scotland; reasons for change and all details freely given; Sundries, Perfumery, or special lines exploited well. "North" (79/60), Office of this Paper.

A GENTLEMAN possessing ability, experience, and a large connection in London and suburbs, desires appointment to Represent a well-established firm in conjunction with an agency for one article he has held for several years; salary or part expenses and commission; highest references. "N. N." (194/12), Office of this Paper.

VARNISH.—Practical Varnish Maker would be glad to hear of firm desiring to commence Manufacturing Varnish; thoroughly well up in best varnishes for Coachmakers, Decorators, Japaners, etc.; can equip works, buy materials, control workmen; well up in costs and selling values; highest references. Address, "A. D.," c/o Reade Brothers, Wolverhampton.

ADVERTISER (34), with sound comprehensive business knowledge and experience, wholesale and retail, seeks responsible position with manufacturing firm or large Retailers; qualified Chemist; accustomed to Pharmaceutical, Agricultural, Horticultural, and General Technical Chemical and Drysaltary business; references to each of 4 employers covering 18 years' service. 202/34, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—200 Bovril Ordinary, 22s. 7½d. c.d., 200 Deferred, 6s. 3d.; 200 Parke's Drug Ordinary, 6s. 9d.; 100 6 per cent. Preference, 13s. 4½d.; 200 Schweppes' Deferred, 7s. 9d.; 500 A. J. White Ordinary, 2s. 1½d., 300 6 per cent. Preference, 10s. 9d.; 400 G. B. Kent Preference, 17s. 10½d.

WANTED (subject).—100 Blesdale, 95s. 6d.; £300 Idris Debutene, 62 per cent.; 40 Evans Lescher Preference, 101s.; 200 G. B. Kent Preference, 17s. 1½d.

List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

PHILIP JOSEPHS & SONS, LTD., have the largest stock of Fittings, Cases, Counters, etc., etc., in the world; all in excellent condition and ready for immediate dispatch; very low prices to clear. Call and see or write for particulars, stating requirements, to 93 OLD STREET, LONDON, E.C.

WE HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect RUDDUCK & CO., 262 OLD STREET, E.C.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND).—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

PLATE-GLASS Shelves, Window-fittings, Carboys, Counters, Drug-fittings, Dispensing-screens, Wall-cases; second-hand; send for list; cheapest house for high-class fittings; complete Chemist fitters; estimates and designs free; men sent to all parts. TREBLE & CO., Shop-front Builders, Ringwood Road, Walthamstow, London.

CHEMISTS' AND DRUGGISTS' FITTINGS, SHOW-CASES, etc.—Second-hand; in good condition. Call Congdon & Son, 77 Clerkenwell Road, E.C.

FITTINGS—SECOND-HAND—COMPLETE: Mahogany 20-ft. Drag-fitting, 18-ft. Wall-cases, 15-ft. glass-fronted Counter, mirror Window-enclosures, etc., bargains to clear; also mahogany Drug-drawers, from 1s. 9d. each; Dispensing-screens, 65s.; Counter-cases, 17s. 6d.; Silent Salesman, 75s.; all in good condition. Direct Designer and Manufacturer. Specialist in Structural Alterations. H. Mills, the Chemist's Shop Fitter, Shop-front Builder, Steam Works, 163-5 Old Street, London, E.C. Telephone 550 London Wall.

Dose Tables for Students of Pharmacy.

A TWENTY-FOUR page booklet showing the adult doses in ordinary cases of the principal medicinal agents, with metric equivalents for dispensing and a complete table of atomic weights, comprising the B.P. figures, and the International Committee's latest pronouncements (O=16 and H=1). The booklet measures 4 in. by 2½ in., and can be carried in the vest pocket. To be obtained from THE CHEMIST AND DRUGGIST (Book Department), 42 Cannon Street, London, E.C., for THREE PENNY STAMPS PER COPY, POST FREE.

POISONS SCHEDULE, according to the New Act, reprinted from THE CHEMIST AND DRUGGIST, with a supplementary list of admixtures, preparations, and other articles brought within the Schedule. On a card (Schedule in front, list at the back) to hang up; price 6d., post free, from the Office of the C. & D., 42 Cannon Street, London, E.C.; or at the published price (4d.) from the leading Wholesale houses.

THE MOST POPULAR DANCE OF THE SEASON FOR CHEMISTS IS THE JUNIOR PHARMACY BALL.

It will take place this year at the

Portman Rooms, Baker St., W., on Wednesday, Feb. 23, 1910

Mortlake Mann's Orchestra. Tickets (including Supper and Light Refreshments), 7s. 6d. each, from the Hon. Secretary, Mr. J. E. SOUTHOX, 8 Leadenhall Street, London, E.C., or any of the Stewards.

SEEDS! SEEDS!! SEEDS!!! Important to all Wholesale Buyers of New and Reliable Seeds. Brown's Wholesale List of Vegetable, Flower, and Farm Seeds for 1910 is now ready, post free. Penny Pictorial Packets, our Speciality, 3s. 6d. per 100; 31s. per 1,000. Send for List at once, gratis, and order your seeds fresh from the actual growers. E. P. Brown & Sons, Seed Growers, Coggeshall, Essex.

VACANCIES for Agents in unrepresented districts by the Imperial Accident Insurance Co., Ltd. Estd. 1878. Capital, £100,000. Departments:—Personal Accidents; Employers' Liability for Accidents to Domestic Servants, Clerks and Shop Assistants; Carriage, Motor and Driving Accidents; Burglary and Plate Glass; Horse and Cattle Insurance. Claims paid, £450,000. Liberal terms allowed. Address, Agency Manager, 17 Pall Mall East, London, S.W.

SEEDS! SEEDS!! SEEDS!!! Chemists, add to your income by selling high-class Seeds direct from the growers; 1d. pictorials a speciality; wholesale catalogue post free. E. W. King & Co., Seed Growers, Coggeshall, Essex.

SUCCESS DURING 1910.—Follow our advice month by month as given in "Business Building," 2s. 6d. yearly (specimen post free); ready made advertisements for all your Specialities; 2s. 6d. subscription will save you pounds; push your own Proprietary articles; we will tell you the way. B. Whitworth Hird, Ltd.,

WONDERFUL BARGAINS IN SECOND-HAND SHOP FITTINGS, &c.—The Fittings of a Shop 14 ft. by 12 ft., £24—1 12-ft. fixture, of 56 mahogany drawers, with glass labels and knobs, lockers, two cupboards, bottle shelves and cornice, £10; 15-ft. range of nearly new drug-drawers, gold labelled and fitted with glass knobs and lockers under, £7; 1 8-ft. counter, 35s.; 1 6-ft. ditto, 27s. 6d.; 1 13-ft. range of 70 very good mahogany drawers, with glass knobs and lockers, £7; 1 handsome 7-ft. dispensing-screen, with 3-ft. mirror and marble slab in centre, £6; 17-ft. wall-case with mirror centre, £7. R. TOMLINSON & SONS, Complete Chemists' Shopfitters, Bond Street, Constitution Hill, Birmingham.



GUMMED PRICE TICKETS
Crimson ground, white figures. Stocked in all usual prices up to 21/, each price banded separately in hundreds.
—The Midget, 6d. per 1,000
The Magnum, 1/6
assorted 10 prices.
Full illustrated list of Blanks for use with these tickets free on application.

10^p

DOOLEY & CO: Ticket Writers & Printers, Holloway, London

THE WINDOW TELLS THE STORY.

Some Pharmacists never trouble about their windows; others do. The one who succeeds in business is always the latter. If a Pharmacist has a good range of his own specialities, and goes to the trouble of arranging smart attractive window shows for them, he is bound to get on. Window shows are one of my specialities. Send for a free copy of my booklet, "How to Increase Your Business," explaining my business pulling system, &c. It will interest you. Post free to Pharmacists only.

J. R. B. ALLISON, Pharmacist and Business Specialist, RETFORD.

BERNARD SLACK'S TWO EASTER SCHEMES.

No. 1 is my usual successful scheme, now being run (by request of old clients) for a third year. But No. 2 is a new one, probably my best as yet, and fits Easter or any period and suits every country, home or Colonial. Regular clients have now received these, and to celebrate my fourth birthday as a Business Increaser for Chemists: any chemist in any town or village can have those two schemes for 10/6, providing I have no client in his locality. The No. 2 Scheme can be run for a week or month, and cannot fail to double, at least, the turnover during that period. It means from £2 to £20 extra net profit according to size of your business. Be sure to get first for your town.

Booklets free from new commodious offices:

9 King St., Wolverhampton.

Exchange Column—Bargains.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

STUDENT wishes to dispose of three months' course at Wills' College, also set of Wills' books and cabinet. 197/5, Office of this Paper.

DENTAL.

A set nickel-plated dental-forceps in case: in perfect condition; cheap, 45s. COLMAN, 7 Gresham Street, E.C.

FORMULÆ.

FORMULA for sale, liquid brass polish. FRANCE, 42 Vartry Road, London, N.

VETERINARY formulæ (12), labels, veterinary booklet, giving symptoms, treatment (own preparations), over 30 animal ailments; thoroughly practical; ready for printing; 50s. DODDS, Crumlin, Antrim.

OPTICAL AND PHOTOGRAPHIC.

BUSCH 5/4 rapid symmetrical lens in B and L shutter: good condition. WALTERS, 23 Cromwell Place, South Kensington.

BRUCE GREEN'S optical-ten and window-case, spectacles, folders, etc.; offers. BOWLER, Westgate Pharmacy, Rotherham.

WHOLE-PLATE lancaster's Merveilleux camera, landscape lens, D.D. slide, tripod, strongly made; 27s. 6d. EDGE, 18 Shanklin Road, Brighton.

10 by 8 CAMERA, double dark slide; City Sale and Exchange No. 2 Pioneer lens, 10 by 8; Hunter Sands 10 by 8 lens; half-plate portrait lens, with roller blind shutter; 46 the lot, or offer separately. OSWAL DAVIES, Arcade, Pontypridd.

PROPRIETARY ARTICLES.

KELLENZO; 2d. packets; about 3 gross; what offers f.o.r.? NEALE, Herne Bay.

BEST offer for 17 ls. Kerol disinfecting-powder; 4 ls. Kerol disinfecting-liquid; 32 ls. Kerol shaving-sticks; 35 6d. Kerol toilet-soap. EDWARDS, Chemist, Fallowfield, Manchester.

1 OZ. otto, virgin (unopened), 20s.; 3 doz. 7½d. Frog, 3s. 6d. doz.; ½ doz. 1s. 1½d. Frog, 6s. 6d. doz.; 2 doz. 1s. 1½d. bromo seltzer, 7s. 6d. doz.; 3 doz. 7½d. ditto, 3s. 6d. doz.; 1 doz. Allen's foot-

ease, 7s. 6d. doz.; ½ doz. 2s. 3d. Hood's sarsaparilla, 24s. doz.; 1 4s. 6d. ditto, 3s. 6d.; 2 3s. 6d. Macassar oil, 1s. 6d. each; 2 4s. Roche's embrocation, 2s. 6d. each; 2s. 9d. Stedman's, 1s. 6d. 25 Queen Street, Ramsgate.

SHARES.

SHARES for sale. See p. 58.

TEN Cupal, Ltd., Ordinary for £6 15s. 200/15, Office of this Paper.

MISCELLANEOUS.

5½ GROSS empty round tins, 2 by ½ in. in outers: cost 65s.; price 25s. 3 Lowther Road, Brighton.

2 DOZ Curot socks, at 9d. each; 4 bots. Curot application, 1s. each post free. HERINGTON, Leighton Buzzard.

MAW'S 3- and 5-grain pill-machines, marble slabs, cut 24; as new; sale, exchange. 67 Far Gosford Street, Coventry.

WATER-BED, 36 by 36, good condition; red-rubber (circular) cushion, 18 in., good condition, soiled; best offers. ANDERSON, Chemist, Crouch End, N.

WANTED.

OLD artificial teeth bought; cash return post. BROOKE, 34 Trinity Street, Boston.

THE C. & D. Diary, 1891. Price to TIMOTHY WHITE CO., LTD., Portsmouth.

FEW gross of 1-oz. boot-polish tins. BIRCH, 7 Ryder Street, Openshaw, Manchester.

DENTAL tools and materials; cheap for cash. SECRETARY, Zander House, Chesterfield.

WEDDELL'S "How do I Stand?" State price to "S. B." (15/15), Office of this Paper.

TOOTH-FORCEPS: doctor's consulting-room couch; good condition. 201 3. Office of this Paper.

DRYING oven or baker's portable oven wanted, in good condition. Price and particulars to 197/33, Office of this Paper.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. GOWEN, Bookseller, Waterloo, Liverpool.

GRINDING mill for seeds and drugs, with fly-wheel for driving with electrical power. State condition, particulars, and lowest price, MAURICE SMITH, Manufacturing Chemist, Kidderminster.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D

All communications for this section should be addressed thus "Corner for Students," *The Chemist and Druggist*, 42 Cannon Street, London, E.C."

Exercises in Practical Chemistry.

IT was indicated in the announcement of the Winter Tournament in our issue of September 25, 1909, that on one or two occasions students might be asked to carry out special exercises in practical chemistry instead of the usual analyses. We now submit a set of such exercises, which should be easily within the reach of many students, whether they have access to a regular chemical laboratory or not, and we hope a large number will take part in them and send in reports.

First prepare accurately the following solutions, placing each in a separate bottle and labelling each with the name of the dissolved substance and the appropriate distinguishing letter:

A. 2 grams euprie sulphate (cryst.), dissolved in 40 c.c. distilled water.

B. 2 grams lead acetate (cryst.), dissolved in 40 c.c. distilled water.

C. 2 grams potassium bromide and 2 grams magnesium sulphate, dissolved in 40 c.c. distilled water.

D. 10 grams sodium carbonate (dry), dissolved in 100 c.c. distilled water.

E. $\frac{1}{2}$ gram silver nitrate, dissolved in 25 c.c. distilled water.

F. 5 c.c. saturated solution of ammonia, mixed with 100 c.c. distilled water.

Exercise I.

In separate vessels place 10 c.c. A and 10 c.c. B; to each add 10 c.c. D, and boil both mixtures for five minutes. Filter; acidify each filtrate with dilute hydrochloric acid, and add solution of hydrogen sulphide to both.

Exercise II.

Mix 10 c.c. C with 10 c.c. D; boil for five minutes; filter. Divide the filtrate into two parts:

(a) Add 5 drops of chlorine-water.

(b) Acidify with dilute hydrochloric acid, and add 5 drops of chlorine-water.

Exercise III.

Mix thoroughly 10 c.c. C with 5 c.c. E; filter; wash twice with cold distilled water. Pour on the precipitate 20 c.c. F, returning the filtrate to the filter four successive times. Acidify the filtrate with dilute nitric acid.

In the case of each exercise:

(a) Describe the phenomena observed.

(b) State the chemistry of the changes which take place.

(c) Mention any bearings of the observed phenomena on qualitative analysis.

Students' reports will be received up to Thursday, March 3.

Special Note.—The exercises announced above form the subjects for the fifth competition in our Winter Tournament. The usual monthly first and second prizes for this set of exercises will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

Where to Study.

The following educational institutions are advertising in this issue:—

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Pharmacy, 323 Clapham Road, London, S.W.

South of England College of Pharmacy, 186 Clapham Road, London, S.W.

Manchester College of Pharmacy, 225A-227A Oxford Road, Manchester.

Northern College of Pharmacy, 100-102 Burlington Street, Manchester.

Leeds College of Pharmacy, Clarendon Road, Leeds.

Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

Northampton Polytechnic Institute, Clerkenwell, E.C.

ARGENTINE LINSEED.—The exports of linseed for 1909 were 887,222 tons. The outlook for the linseed crop is very poor this year, according to the "Times of Argentina."

Coming Events.

This Section of the "C. & D." is reserved for advance notices of meetings or other events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, February 21.

National Union of Assistant Pharmacists, Birmingham Branch, Carlton Café, Temple Street, at 9 p.m. Election of officials and discussion of Executive report.

Tuesday, February 22.

Bradford Chemists' Association, Rawson Hotel, at 9 p.m. Mr. W. Kirkby, M.Sc., on "A Quack of the Seventeenth Century."

School of Pharmacy of the Pharmaceutical Society of Great Britain, Caledonian Room, Holborn Restaurant, London, W.C., at 7.30 p.m. Annual dinner. Tickets (6s. 6d. each) may be had from Mr. G. A. Donaldson and Mr. A. A. Maitland, Hon. Secretaries of the Dinner Committee, 17 Bloomsbury Square.

Wednesday, February 23.

Junior Pharmacy Ball, Portman Rooms, Baker Street, London, W. Tickets (including supper and light refreshments), 7s. 6d. each, from Mr. J. E. Southon (Hon. Secretary), 8 Leadenhall Street, London, E.C.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 8 p.m. Mr. H. S. Smith on "Oxy-acetylene Welding."

Public Pharmacists' and Dispensers' Association, St. Bride Institute, Bride Lane, London, E.C., at 8 p.m. Mr. G. W. Udale (President), on "Homeopathic Pharmacy."

Cardiff Pharmaceutical Association, Angel Hotel, at 3 p.m. Discussion on "The Value of Local Associations and their Possibilities."

National Union of Assistant Pharmacists, London Branch, "The Enterprise," Long Acre, Holborn, W.C., at 8.30 p.m. Smoking-concert. Tickets from Mr. F. Bullen (Hon. Secretary), 85 Lydhurst Avenue, Streatham Hill, S.W.

Thursday, February 24.

Choltenham Chemists' Association, New Inn Hotel, Gloucester, at 9 p.m. Address by President.

Barnsley Chemists' Association, Royal Hotel, at 7 p.m. The President (Mr. Bellamy) on "Leaves and their Uses." A display of early spring flowers will be arranged by the Secretary.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 7.15 p.m. Whist-drive. Tickets (2s. each) from Mr. A. Steen Barr and Mr. H. Humphreys Jones, Hon. Secretaries.

Drug-stores Association of Great Britain, Nottingham Branch, Victoria Station Hotel, at 7.45 p.m. Annual dinner. Tickets (3s. 6d. each) from Mr. C. Manfull (Hon. Secretary), 58 Thurgarton Street, Sneinton, Nottingham.

Friday, February 25.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 p.m. Lord Rayleigh, on "The Colours of Sea and Sky."

Glasgow School of Pharmacy, Arcade Café, Argyle Street, at 8.30 p.m. Annual dinner. Tickets (3s. each) from the Secretary of the School, 180 West Regent Street.

Bournemouth Pharmaceutical Association, Gervis Hall Restaurant. Conversation.

SIR WILLIAM H. WHITE, K.C.B., D.Sc., F.R.S., late Chief Constructor to the Admiralty, will present the prizes and certificates to the students of the South-Western Polytechnic Institute, Chelsea, S.W., on March 11, at 8 p.m.

THE ANNUAL DINNER of the Chemists' Assistants' Association will be held on March 17 in the International Hall, Café Monico, London, W. Tickets (5s. each) from Mr. A. R. Arrowsmith (Hon. Secretary of the Dinner Committee), 4 Stratford Place, W.

MR. G. DUNCAN BOWIE, representative of Messrs. Duncan, Flockhart & Co. in North-West London, will preside at the fourteenth annual dinner of Gordons College, Aberdeen, Old Boys' Association, at the Frascati, on Saturday, March 12, at 7 p.m. "Old boys" connected with pharmacy who would like to be present should communicate with Dr. David Ross (Hon. Secretary), 346 Kingsland Road, N.E.

IT SEEMS AN AGE since we read in our own pages the conversation between a young man and his best girl on books. "Of course, he said deliberately, 'you've read Scott's 'Emulsion'?' " "Of course!" she replied, indignant that he should ask such a question. "But," she added, "I don't think it's as good as 'Ivanhoe'!" It has come back to us again *via* Liverpool.

Observations and Reflections.

By Xrayser II.

The Sophistication of Essential Oils

is a fine art based on scientific principles. The sophisticator must himself be a scientific man, and when one considers the array of talent that has for years past been engaged in exposing his practices, one cannot but admire the skill and coolness with which he goes about his work. I sometimes wonder whether the record of the analytic ability of men like Parry, Umney, Brewis, Bennett, Hill, and others is not, after all, simply an invitation to the sophisticator to invade those regions where the barriers are by common admission most ineffective and an indication of the future line of attack which synthetic ingenuity will have to follow. When one considers the difficulties surrounding the subject, one is harassed by the doubt as to the possibility of ever constructing standards that will absolutely ensure the genuineness of any essential oil, for no matter what standard is adopted, we may take it for granted that some genuine specimens of oil will usually fail to meet it, while faked oils will frequently pass without question. Thus there will always be ample room for the manufacturers and the experts to disagree.

Genuine Oil of Wintergreen

can hardly be mistaken for synthetic methyl salicylate by those who were accustomed to handle the natural oil before the artificial product came into common use. Of people on the other hand who made their first acquaintance with artificial oil of gaultheria few possess the same facility for distinguishing between the two, and as for mixtures of the natural and the synthetic not even an expert could give any approximation to the amount of either of the oils present. It has always seemed to me stupid to mix methyl salicylate with natural oil, for the odour of the latter is completely dominated by the former, and the mixture would be returned as synthetic oil by the majority of chemists. I am therefore in entire agreement with Mr. C. A. Hill on this point. As to the colour of natural and synthetic salicylic acid, I am not at all surprised that Mr. White finds salicylic acid made from genuine oil to be darker in colour than that from synthetic oil. This is well understood, and the same remark applies to salicylate of soda. The text-books state that natural salicylate is of a pinkish shade, but I have seen it even of a decided creamy tint. Some medical men are fond of prescribing the natural salt in the belief that when given in large doses it is more easily tolerated than the synthetic. The difference in colour of the salicylates supplied as "natural" is sometimes a cause of trouble to dispensers, and to all such Mr. White's reference to this point is therefore of some interest.

The Ethics of Advertising

is a large and difficult subject, which has not received the consideration it deserves; it is, indeed, almost the last subject some advertisers appear to think of. The attempt that is being made by the administrators of the Australian Commerce Act, to give the force of law to what may hitherto have been regarded as counsels of perfection, is therefore to be welcomed, in so far as it does not interfere with legitimate business. Although undoubtedly there ought to be nothing but "truth on the label and in any accompanying printed matter," yet truth is a relative thing, and bare fact is not the whole of its

content. To state the exact and naked truth is the most difficult feat in the world, and when the statement is a general one is quite impossible. Allowance must be made for the fact that one's own geese are usually swans; and, apart from this, exaggeration and a certain amount of extravagance are not necessarily misleading. Every reasonable person allows for the further fact that in addressing a large audience it is necessary to raise one's voice a little—that a boldness of speech which would be insufferable among friends is not so in an advertisement. If a man really has a reasonable ground for faith in his goods, he is, I think, justified in giving such emphasis to his description of them as shall carry conviction to his public, even though he cannot give absolute proof of everything he says in their praise; and the impression thus conveyed may be nearer the truth than that of such a bald statement of fact as would fail to arouse the interest of the reader. Truth, I repeat, is relative; the most anyone can achieve is truth of impression. This certainly the advertiser should aim at; but his initial difficulty is to attract attention, to do which he must bring the personal equation into play, and the relation of the personal equation to pure truth has yet to be determined. These remarks, it will be noticed, refer rather to the morality than to the expediency of bold advertisement; it is quite possible that harm may be done where none is intended, but even so, the requirements of the Australian officials seem to be a little over-stringent.

The Chemist in Fiction

is not always such a sinister figure as would appear from the instances given in Mr. Waddington's interesting letter, nor such a "cad" as Flaubert's M. Homais. The most sympathetic portrait of a member of our craft that I remember (I have not read Heiberg's "Apotheker Heinrich") occurs in a charming short story in Mr. Frederick Wedmore's "Renunciations." The name of this person, and the title of the particular story of which he is the hero, I forget, but the gracious and pathetic figure of the man himself is not to be forgotten. He, however, is an exception; for the most part the pharmacist has been as badly treated in literature as the attorney (see Mr. Christian's amusing book "Leaves of the Lower Branch"), and one cannot say more than that. From Abel Druggier in "The Alchemist" down to the chemist in "Pickwick," he is usually represented as a pitiful creature; and the morbid picture in Mr. Wells's "Tono-Bungay" is not much of an improvement on the usual type. Among the great names of literature that have associations with the "lower branches" of the healing art are Dante, who was a member of the Guild of Apothecaries of Florence, and our own Keats. I do not remember any references to pharmacy and chemistry in the former, who was, however, well versed in all the scientific lore of his time and a diligent student of Albertus Magnus, but in Keats there are several. The process of distillation, for instance, is very prettily described in "Isabella," in the lines:

"Sweet with the dews
Of precious flowers pluck'd in Araby,
And divine liquids come with odorous oze
Through the cold serpent-pipe refreshfully."

The "luculent syrups tinct with cinnamon, manna, and dates" of "The Eve of St. Agnes" seem to owe something to the poet's memories of the "gallipots" at Edmonton, to which one of his critics so brutally told him to get back. A more surgical allusion in one of his minor pieces—"Physician Nature, let my spirit blood!"—has, curiously enough, been somewhat of a crux to one or two of his later critics, who must have been singularly ignorant of medical terms.

SANITAS

Pocket Spittoon.



Protected Price 1/2½

Beautifully finished.

This flask has been designed to fit the pocket comfortably, whilst the double cap renders it extremely easy to clean.

Guaranteed fluid-tight.
Made in dark blue glass.

Trade rates on application to the Sole Manufacturers:

The "SANITAS" CO., Ltd.

LONDON, E.

"MILK OF MAGNESIA"

(Registered Trade Mark)

(PHILLIPS')

For special terms apply to **THE CHARLES H. PHILLIPS CHEMICAL CO.,**
14 Henrietta Street, Covent Garden, W.C.



LUDDINGTON'S OILS

1/-, 2/6, 5/-, **BEST KNOWN LAMBS MEDICINE**

Attractive Advertising. On P.A.T.A.

TOMLINSON & HAYWARD, Ltd., Lincoln.

WILCOX, JOZEAU & CO.
49 Haymarket, London. SW
Importers and Exporters of

FRENCH and all FOREIGN PROPRIETARY MEDICINES

Price List on Application
Special Export Terms
Foreign Prescriptions
Dispensed for Pharmacists

"THE CHEMIST & DRUGGIST" SERIES.

PHARMACEUTICAL FORMULAS.
THE ART OF DISPENSING.
VETERINARY COUNTER PRACTICE.
THE CHEMIST-OPHTHICIAN.
ELEMENTARY DISPENSING PRACTICE.
DISEASES AND REMEDIES.
PHARMACEUTICAL TESTING.
GUIDE TO PRELIM. EXAMS.
URINE ANALYSIS.
CHEMIST'S MEDICAL DICTIONARY.
OPENING A PHARMACY.

Price 10/-, by Post 10/6
Price 6/-, by Post 6/4
Price 4/-, by Post 4/4
Price 4/-, by Post 4/3
Price 3/6, by Post 3/9
Price 3/-, by Post 3/3
Price 2/6, by Post 2/9
Price 2/6, by Post 2/9
Price 2/6, by Post 2/9
Price 2/6, by Post 2/8
Price 2/-, by Post 2/2

Published at the Offices of "THE CHEMIST AND DRUGGIST,"
LONDON, MELBOURNE, AND SYDNEY.

JAMES BURROUGH LTD.
Cale Distillery,
Hutton Road,
LAMBETH,
S.E.

SVR

AND
**METHYLATED
SPIRIT**
at lowest prices.

Write for Quotations.

FLETCHERS' FOR TINCTURES, INFUSIONS, AND SYRUPS.

CONCENTRATED

Sole Proprietors:
FLETCHER, FLETCHER & CO., Ltd.
London and Sydney.

LIQUORS

Editorial Articles.

The Possessive Case.

THE return of Sir Robert Bannatyne Finlay, K.C., as Member of Parliament for Edinburgh and St. Andrews Universities, brings back to the political arena an interesting personality. Sir Robert is a native of Edinburgh, and the eldest son of the late Dr. William Finlay, F.R.C.P.E. He himself studied and graduated in medicine at the Edinburgh University, but subsequently studied law, and was called to the English Bar in 1867. Sir Robert was Attorney-General in the last Conservative Government, and it is expected that he will reach the Wool-sack. We refer to his return to St. Stephen's after four years' absence, as he did good service to pharmacy in 1888 by his opinion on the possessive-case question which was then agitating the drug-trade, consequent upon the ruling of the Board of Inland Revenue that the name "Blaud's Pills" rendered the well-known B.P. pill liable to medicine stamp-duty, and generally that the use of the possessive case, whether implying proprietary right or not, is a ground of liability. Messrs. Macfarlan & Co., of Edinburgh, had in 1887 correspondence with the Board of Inland Revenue respecting the liability to medicine stamp-duty of Blaud's Pills (specifically) and of other preparations, such as Gregory's Pills, Christison's Pills, and Hamilton's Pills (impliedly), and much dissatisfaction was felt and expressed at the Board's conclusion. We then had a case stated for Sir Robert Finlay's consideration, and he wrote as follows:

"I am of opinion that these pills are not liable to duty. 'Blaud's Pills' is a merely descriptive term. It does not convey in common usage any idea of proprietary right, and I do not think that the duty is payable, though the label also bears the name of the compounder.

"My opinion rests on the view that, though in their original sense the words might convey an idea of proprietary right, yet in their current use they merely describe the article sold, just as, for instance, 'Gregory's Mixture,' Temple, February 7, 1888. R. B. FINLAY."

This opinion coming, as it did, from a lawyer who was expected to become a law officer of the Crown, was of great value to chemists, but it was not welcomed by the Revenue authorities. Indeed, a few years later a distinguished administrator (now a peer of the realm) declared that if the Board had made a mistake, it seemed to consist in interpreting the law too much against the Revenue and too favourably to chemists. He held that "Dr. Easton's Syrup," "Gregory's Pills," and "Blaud's Iron Pills" are all liable to duty, and if the Board were to choose to insist on it, they could charge the duty on "Iron Pills (Blaud)" and on "Blaud. Iron Pills," just as well as on "Blaud's

Iron Pills." At the same time the interesting observation was made that chemists contend that medicines cease to be liable to duty when they are in common demand by the public, and the formulæ for these preparations are in the Pharmacopœia or in other books relating to medicine. The writer demurred entirely to this contention, and he suggested that chemists could have a case carried to the High Court on the point that a medicine the prescription for which is in the Pharmacopœia is exempt from the charge of duty. It was not until ten years later, and without knowledge of this challenge (which, in fact, has not been made public until now) that Mr. Glyn-Jones sold the "Ammoniated Tincture of Quinine, B.P.," with a recommendation which the Board of Inland Revenue considered to make the tincture dutiable. Soon after the High Court decided that case in favour of Mr. Glyn-Jones, we entered into correspondence with the Board in regard to possessive-case names of popular medicines which are not, or never have been, proprietary. Sir Robert Finlay was at that time Attorney-General, and we remarked then (*C. & D.*, September 24, 1904, p. 549):

"We understand that the Board are not unconscious of the fact that the present principal legal adviser of the Government has declared that such medicines as 'Gregory's Powder,' which have never been proprietary, whose composition is well known, and which are commonly named in the possessive case, are not dutiable medicines in the terms of the Act."

The result of our correspondence with the Board was their acquiescence in the principle for which we had so long contended, in accordance with Sir Robert Finlay's opinion. On October 11, 1904, a letter was sent to us through Mr. Stoodley, Secretary of the Board, which said:

"The Board . . . are of opinion that such a description as 'Rhubarb Pills (Smith)' or 'Rhubarb Pills (Smith's)'—taking these as hypothetical illustrations—imply *prima facie* either a proprietary interest or a claim to some 'occult secret or art' in the preparation of the remedy described, and therefore that, in the absence of proof to the contrary, the description would render the remedy liable to duty. Where, however, proof should be produced that the name included in the description carried with it no claim either to exclusive right of sale or to exclusive knowledge, the Board would be prepared to recognise the remedy as not liable to duty. Following this principle, the Board are now prepared, on the evidence which you have been good enough to lay before them, to pronounce free from liability the following medicines:

1. Liver Pills (Sir Andrew Clark).
2. Hamilton's Pills.
3. Christison's Pills
4. Dobell's Aperient.

They will, moreover, be ready to treat in the same way other remedies in respect of which they can be afforded equally satisfactory evidence of the absence of any claim to proprietary title or to exclusive knowledge of the composition."

Sir Robert Finlay's opinion probably paved the way to this ruling, but it was made possible by the decision in *Farmer v. Glyn-Jones*, which definitely authorised the Board to regard the known, admitted, and approved class of remedies as non-dutiable. Within that class fall those popular remedies originated by medical authorities, whose composition has been published to the world at large. Since 1904 the Board have placed in the same category, at our request (except in the case of the first named), the following possessive-case names:

Easton's Syrup.
Pagenstecher's Eye Ointment.
Pagenstecher's Ointment.
Parrish's Chemical Food.
Parrish's Syrup.
Rhinitis Tablets (Lincoln).
Stokes's Chest Liniment.
Stokes's Expectorant Mixture.
Stokes's Liniment.
Stokes's Mixture.
Stokes's Rheumatic Liniment.

There may be many more medicines similarly described which are not strictly dutiable (for example, those to which some known doctor's name is applied), but the Revenue authorities exact payment of duty in all except those specified in this article.

London Dock Rates.

WE commented on February 5 (p. 220) on the reductions and concessions in maximum port rates for drugs and chemicals, as set forth in the draft Provisional Order, and pointed out that the rates for spice and condiment trades were practically untouched, many of them remaining at 3s. per ton. This has called forth a protest from a firm of importers who, in making their objections to the Board of Trade, point out that on one item alone (condiments from British India) they estimate an increase in landing charges of more than 60*l.* per annum. Among the many inconsistencies, they point out, is curry-powder, subject to the 3s. rate, while cocoanut (which is stated to be used as an ingredient in the manufacture of curry-powder) is rated at 6*l.* Indeed, a large proportion of foods and necessities are rated at 3s., but a luxury like unmanufactured tobacco is to pay 2s. Apart altogether from the proposed dock rates, many instances can be adduced among London merchants as to how the high dock charges have operated against the trade of the port. For instance, importers of American drugs and other produce from the United States find it much cheaper to bring these goods from New York to London *via* Southampton, thence per L. & S.W. Railway, and it is suggested that if these penalising rates are enforced many merchants will endeavour to avoid London altogether, and, where possible, import goods for home consumption through other British ports. Since the famous London dock-strike of 1889, large quantities of Continental goods which were formerly brought into London for re-exportation are now shipped direct from Hamburg, Antwerp, Havre, Marseilles, and other ports direct to our Colonies, and it is suggested that if heavy port rates are to be enforced they will, to a certain extent, defeat their own object, inasmuch as merchants will be compelled to divert re-export business to the Continental ports. This would, of course, mean loss of freight to London ship-owners, loss of money represented by dock rates, and the probability that the re-export business in Continental goods would gradually drift into the hands of German and French houses. That there is much need for improvement in the methods of handling cargoes in the Port of London is acknowledged, but consensus of opinion among the commercial community is that the rates are going to prove a great hardship, and that the movement is retrograde. One of the strongest and most active opponents to the proposed rates is the London Waterside Manufacturers' Association (Incorporated), which represents an invested capital of about one hundred millions sterling, part of which was invested in works and plant on the strength of "free water" rights, and to many of these the imposition of port rates on cargoes discharged in the river or at the waterside works is serious. This body held a meeting at the London Chamber of Commerce on February 7, when a series of resolutions were adopted, and have since met with the approval of the Chemical Trade Section. The principal resolution pointed out that the draft Provisional Order "does not contain any provision instructing the Port Authority to impose and collect port rates on goods in such a manner that the dues on constituent materials imported to London waterside factories for conversion into finished products shall not in the aggregate exceed the rates imposed on the imported finished product; also that no provision exists whereby the finished product of the London Waterside

Manufacturers, if exported, shall be free from export-rates, and receive a refund of any import-dues paid on the constituent materials used in the manufacture of any exported finished product."

Another resolution was to the effect that the special case of London manufacturers might be met by providing for a system of drawbacks, or by allowing manufacturers in London to import raw material for manufacture and export finished products free of port rates—port rates to be paid only on the finished product of a London factory when such products are manufactured other than for export, coastwise or foreign. In a third resolution, the Board of Trade was requested

"to insert a provision defining the manner in which the port rates on goods loaded or discharged in the river, and which do not use the docks, shall be levied so as to comply with the requirements in Section 13, Sub-section 3, of the Port of London Act, to the effect that the amount received from port rates on such goods shall not exceed one three-thousandth part of the aggregate value of the goods imported into and exported from the Port of London from and to parts beyond the seas."

The meeting also disapproved of the proposed schedule, because the limitations on aggregate value have not been carried out, and desired that it should be re-adjusted with more regard to *ad valorem* basis. The contention among the waterside manufacturers is that they do not use the docks to any extent, they do not require new ones or improvements on those existing, so that they do not believe they should be called upon to contribute to the dues to the same extent as those goods are landed there.

We have been favoured by the Secretary of the Chamber with a perusal of a letter he is addressing to the Assistant Secretary of the Harbour Department, Board of Trade, in regard to the draft Provisional Order. In this it is pointed out on behalf of the Chemical Section that the draft disregards the provisions of Sub-section (3) of Section 13 of the Act of 1908, by making many maximum rates more than one-thousandth part of the value of the goods. Various other objections are set forth, as well as specimen rates showing that the charges are in proportions ranging from $\frac{1}{125}$ to $\frac{1}{25}$ of the value of the articles, and it is intimated that the members of the Section desire to offer evidence in support of the suggestions which they set forth, and which have been fully referred in this and previous issues of the *C. & D.*

University College Laboratories.

An appeal was issued on February 12 by the authorities of University College, London, for 70,000*l.* to build new chemical laboratories in Gower Street, to the north of the present buildings. The laboratories were the first in a London college in which chemistry was taught practically. The School of Pharmacy was before it, however. Thomas Graham introduced practical work in chemistry from Glasgow, where the science was taught in this way by Thomas Thomson, uncle of Professor J. W. Thomson, F.R.S., of King's College. Fownes, the first professor of chemistry to the Pharmaceutical Society, was a demonstrator at University College, and so was Mr. Michael Carteghe many years later. Dr. Norman Collie, F.R.S., Professor of Organic Chemistry at University College, was formerly professor at the School of Pharmacy. Dr. Collie, writing to the "Westminster Gazette," says:

"A new chemical department at University College has been wanted for many years; the present one is without doubt by far the worst, as far as space and equipment are concerned, that can be found in any important college in the Kingdom. The main laboratories are all underground, and consist chiefly of a series of small cellars—even a disused lavatory has been called into requisition for housing a liquid-air machine. That this state of affairs should exist in a laboratory where many of the most important historical discoveries in chemistry during the past eighty years have been made is deplorable. It was in the chemical laboratories of University College that Thomas Graham worked; afterwards Williamson, with his epoch-making researches on the ethers, carried on the tradition; and more recently Sir W. Ramsay has added to our knowledge of chemistry by a series of great discoveries.

... University College has only for the present the option of buying the last piece of ground in the vicinity where it would be possible to erect the new buildings. Surely it is not demanding too much of the public to ask them to appreciate the enormous benefits to science that have come from Sir W. Ramsay's work, by contributing towards the building of new laboratories where the old traditions may be carried on in the future, and at the same time remove from one of the chief colleges of London the stigma of possessing the worst-equipped chemical laboratory in Great Britain."

The appeal for help on account of Sir William Ramsay's work is the dominant note also in the official circular signed by Sir H. E. Roscoe, to which is added an appreciation of the work by Sir W. A. Tilden, while the Earl of Rosebery, in a covering letter, "earnestly hopes"

"that the friends of the University of London and the admirers of Sir William Ramsay will co-operate to insure the success of this appeal for 70,000*l.* for an academical necessity. Should the admirers of Sir William Ramsay alone take the matter up in proportion to their zeal and his merits, there can be no doubt of the necessary fund being raised."

We think such use of Sir William's name is not altogether wise. The main facts are that the average number of students in the chemical department of the College for the last four sessions has been 261, of whom, on the average, 160 have been students in the junior classes, 68 students in the advanced laboratories, and 33 research students. The number of researches published during the past twenty-two years by members of the staff and students of the chemical department amounts to 331; of these 72 have been carried out by Sir William Ramsay and collaborators. To keep this up better accommodation is needed.

Liability through "Balsamic."

Some years ago the Board of Inland Revenue regarded the title "Balsamic Bronchial Wafers" as not bringing the preparation within the charge of medicine stamp-duty (see *C. & D.*, January 15, p. 95). Messrs. Raimés & Co., of York, now write as follows:

"After a somewhat lengthy correspondence with the Board of Customs and Excise, we are informed definitely that the word 'Balsamic' used in conjunction with 'Bronchial' in our label for bronchial wafers renders the article liable to patent-medicine stamp duty. They add that if the word 'Balsamic' is removed there is no liability. This decision confirms the opinion expressed in your letter."

This note is especially interesting to those who have in use labels that were officially declared, before 1904, to be not liable. The changes in the law owing to several High Court and other decisions since 1903 may have brought some of these within the charge of duty.

An Academic Growl.

Consequent on a correspondent's article on "Research Chemists" in "The Times" last week a good deal of nonsense concerning chemists has appeared since in our daily contemporaries. The writer of the "Times" article was one of those few persons who are to be found in the purlieus of Burlington House, and are never tired of sneering at the British habit of regarding "chemist" as synonymous with "apotheker" or "pharmacist." From this he proceeded to growl about British chemical manufacturers not employing staffs of research chemists as German chemical manufacturers do. The growl can do no harm, and may stimulate some, but we suggest that there is no reason why we should do in Britain as the Germans do in Germany. We have our own ways, and they theirs. Ours happen to include research in our most important industries, besides a numerous class of professional chemists who make excellent incomes as advisers to manufacturers. That class would to a large extent be wiped out if the German system became general with us. The "Times" writer has conveyed the impression that research is neglected in this country, especially by manufacturers; certainly they do not proclaim from the house tops what they are doing, but the manner in which they hold their own in their peculiar products is fair evidence that they are not beaten in improvements and economical production. The very eagerness of their foreign competitors to find highly profitable novelties points to the difficulty that they have in meeting competition in staples.

Sandalwood Oil.

THE monograph for this oil suggested by Messrs. C. A. Hill and J. C. Umney for the next British Pharmacopœia contains the following factors: Specific gravity at 15.5° C., 0.973 to 0.985; optical rotation (100-mm. tube) at 20° C., -16° to -20°; and solubility 1 vol. in 6 vols. of 70-per-cent. alcohol at 20° C.

The following data are taken from recent laboratory records of Messrs. Stafford Allen & Sons, Ltd., and represent oils distilled by them from Mysore sandalwood month by month during a period of two years and nine months. Column A contains sp. gr. at 15° C., Column B, solubility in 70-per-cent. alcohol at 15° C., and Column C optical rotation in 100-mm. tube:

A	B	C	A	B	C
0.9736	1 in 6	-13.65	0.9755	1 in 5	-17.2
0.9757	1 " 5	-17.38	0.9760	1 " 4½	-17.4
0.9781	1 " 5½	-15.1	0.9755	1 " 5	-16.6
0.9783	1 " 6	-15.5	0.9760	1 " 5	-16.5
0.9780	1 " 5	-16.5	0.9760	1 " 5	-16.45
0.9789	1 " 7	-14.5	0.9758	1 " 4½	-16.5
0.9860	1 " 6½	-13.75	0.9765	1 " 5	-16.6
0.9799	1 " 6½	-13.5	0.9759	1 " 5	-16.6
0.9779	1 " 5½	-14.95	0.9773	1 " 5	-16.2
0.9769	1 " 5½	-14.69	0.9769	1 " 5	-16.1
0.9735	1 " 5	-17.9	0.9765	1 " 4½	-16.65
0.9733	1 " 5	-17.65	0.9758	1 " 6	-16.20
0.9760	1 " 14	-13.32	0.9768	1 " 5	-17.0
0.9737	1 " 14	-13.75	0.9759	1 " 4½	-17.35
0.9734	1 " 5	-17.9	0.9775	1 " 5	-16.35
0.9771	1 " 5½	-16.05	0.9764	1 " 5	-16.75
0.9765	1 " 5		0.9770	1 " 4½	-16.7
0.9780	1 " 6	-16.0	0.9777	1 " 4½	-17.2
0.9797	1 " 4½	-15.0	0.9774	1 " 5	-17.2
0.9783	1 " 5½	-16.2	0.9774	1 " 4½	-16.95
0.9772	1 " 5½	-17.05	0.9777	1 " 5	-16.6
0.9769	1 " 5½	-17.15	0.9781	1 " 5	-16.15
0.9775	1 " 6	-16.15	0.9776	1 " 5	-16.65
0.9770	1 " 6	-16.4	0.9762	1 " 5	-18.4
0.9783	1 " 5½	-16.5	0.9771	1 " 4	-17.85
0.9805	1 " 6	-15.95	0.9758	1 " 5	-17.5
0.9788	1 " 6	-15.25	0.9770	1 " 4	-18.5
0.9786	1 " 5½	-16.1	0.9782	1 " 5	-16.1
0.9809	1 " 5	-15.75	0.9771	1 " 4	
0.9780	1 " 4½	-16.6	0.9759	1 " 5	
0.9809	1 " 4½	-16.6	0.9760	1 " 5	
0.9774	1 " 9	-13.5	0.9769	1 " 4½	
0.9807	1 " 4½	-15.85	0.9779	1 " 4½	
0.9788	1 " 5	-16.6	0.9786	1 " 4½	-17.0
0.9790	1 " 4½	-15.6	0.9740	1 " 4½	
0.9790	1 " 5	-15.6	0.9776	1 " 5½	-17.15
0.9788	1 " 4½	-15.85	0.9775	1 " 6	-16.95
0.9854	1 " 6		0.9780	1 " 6	-17.25
0.9846	1 " 4½	-17.35	0.9767	1 " 5	-17.5
0.9767	1 " 4	-17.45	0.9763	1 " 5	-16.9
0.9769	1 " 5	-17.5	0.9765	1 " 5	-18.0
0.9760	1 " 4½	-16.75	0.9773	1 " 5	
0.9776	1 " 4½	-17.5	0.9774	1 " 5	-17.8
0.9758	1 " 5	-16.5	0.9771	1 " 5	-18.05
0.9768	1 " 6½	-15.3	0.9756	1 " 5	-17.85
0.9773	1 " 5	-16.5	0.9768	1 " 5	-17.75
0.9758	1 " 5	-16.5	0.9776	1 " 4½	
0.9768	1 " 6	-15.8	0.9776	1 " 4	-16.5
0.9778	1 " 4½	-16.75	0.9773	1 " 4½	-17.8
0.9770	1 " 4½	-17.0	0.9781	1 " 4	-16.5
0.9768	1 " 5	-17.6	0.9774	1 " 4	-16.6
0.9771	1 " 5	-16.9	0.9775	1 " 4½	-16.5
0.9788	1 " 7	-15.0	0.9756	1 " 4½	-20.85
0.9780	1 " 6	-15.65	0.9769	1 " 4	-17.9
0.9777	1 " 5	-16.5	0.9774	1 " 5	-17.0
0.9764	1 " 5	-16.9	0.9765	1 " 4	-17.56
0.9773	1 " 5	-16.5	0.9766	1 " 5	-17.64
0.9766	1 " 4½	-16.75	0.9754	1 " 4½	
0.9768	1 " 4½	-16.5	0.9766	1 " 5	
0.9775	1 " 5½	-16.1	0.9763	1 " 5	-17.38
0.9767	1 " 4	-16.1	0.9752	1 " 6	
0.9763	1 " 4½	-16.15	0.9771	1 " 5	
0.9770	1 " 5	-16.2	0.9767	1 " 6	
0.9770	1 " 4½	-16.35	0.9767	1 " 6	
0.9769	1 " 5	-15.85	0.9756	1 " 5½	-17.1
0.9765	1 " 4½	-15.85	0.9775	1 " 4	
0.9770	1 " 4½	-15.25	0.9771	1 " 4	-17.5
0.9750	1 " 5	-15.8	0.9765	1 " 4½	-17.25
0.9781	1 " 4½	-14.75	0.9768	1 " 4½	-17.25
0.9759	1 " 4½	-14.6	0.9780	1 " 4	-17.5
0.9783	1 " 4½		0.9778	1 " 4	-17.85
0.9786	1 " 4½	-14.8	0.9767	1 " 5	-18.35
0.9765	1 " 5	-15.75	0.9773	1 " 4	
0.9776	1 " 4½		0.9772	1 " 4	
0.9774	1 " 4½	-15.9	0.9771	1 " 4	
0.9768	1 " 5½	-14.8	0.9776	1 " 5	
0.9779	1 " 4	-16.15	0.9769	1 " 5	
0.9776	1 " 5	-15.0	0.9788	1 " 4	
0.9778	1 " 5	-16.0	0.9787	1 " 4	
0.9761	1 " 4½	-16.6	0.9790	1 " 4	-18.5
0.9761	1 " 4	-16.9	0.9775	1 " 4	-18.8
0.9762	1 " 4½	-15.76	0.9773	1 " 4	-17.8
0.9793	1 " 4½	-15.65	0.9758	1 " 4	-20.5
0.9796	1 " 5	-15.3	0.9779	1 " 4½	-18.25
0.9727	1 " 5	-16.65	0.9798	1 " 5	-17.54
0.9760	1 " 4½	-16.9	0.9772	1 " 4½	-18.05

Adulterated Peppermint Oil.

By Ernest J. Parry, B.Sc., F.I.C.

THERE has recently appeared on this market a peppermint oil having all the usual physical characters of genuine peppermint oil, except that its solubility is not as good as it should be. I have had some small samples to examine, and have been able to isolate, after repeated fractional distillation, about 20 per cent. of an oil having a refractive index of about 1.430, and an optical rotation of -12°. The amount at my disposal has been too small to identify the adulterant definitely, and the purpose of this note is to call attention to what is obviously a new adulterant. I am obtaining larger samples with a view to a complete investigation of the nature of this new adulterant.

Practical Notes and Formulæ.

A New Grey Oil.

SILVER has been found to exercise a curative effect in syphilis, and this has led M. Deguy ("Comptes Rendus") to prepare grey oil with an amalgam of mercury (10) and silver (40). A platinum amalgam may also be prepared and used in like manner.

Yeast Preparations.

To make powdered yeast, Keulemann ("Pharm. Weekbl.") directs that beer yeast be washed with water till the washings are colourless and free from odour. The yeast is then dried on a water-bath and reduced to powder. The yield is 15 per cent. Extract of yeast is made by covering the washed yeast with three parts of boiling water and heating for fifteen minutes on a water-bath until a homogeneous mass results. Filter and again treat the residue with one part of boiling water; filter and evaporate the mixed liquors to a dry extract; yeast yields 3 per cent. of extract.

Iodo-tannic Syrup.

IN preparing iodo-tannic syrup the iodine needs to be finely powdered so that the reaction with the tannin can take place with facility. It is somewhat difficult to finely powder iodine, as it slips about under the pestle. To overcome this difficulty M. Courand proposed to rub up the iodine with twice its weight of sugar. With a view to preventing loss of iodine the preparation of the syrup is carried out in a strong glass bottle closed with a porcelain stopper. The remarks apply especially to the syrup of the French Codex, but apply equally to the numerous formulæ founded upon the official recipe.—*Bulletin de la Société de Pharmacie de Bordeaux.*

Removing Stains.

A BELGIAN pharmaceutical journal gives the following notes regarding the removal of stains caused by medicaments. Iodine is best removed by moistening with ammonia or solution of sodium hyposulphite. Silver-nitrate stains require a solution of potassium cyanide or, in case potassium iodide is employed, follow it with sodium hyposulphite. Sylla recommends the following for removing silver-nitrate stains from the skin: Mercuric chloride, ammonium chloride, of each 10 parts, distilled water 80 parts. Chrysarobin stains are easily taken out by means of benzine, chloroform, or absolute alcohol. If used warm these solvents act quicker. To remove the stains of picric acid soak in a solution of an alkaline sulphite, such as potassium sulphite, then wash with soap and water. Recent stains are removed by rubbing with magnesia and water. For resorcin stains a weak solution of citric acid is good. Pyrogallol stains if old cannot be removed, but if recent are best treated first with a 5 to 10 per cent. solution of ferrous sulphate, and when the stain has changed colour wash and remove the remaining stain with a solution of potassium binoxalate. Tar-stains are best removed by an alcoholic solution of soap.

Winter Session.

Brief Records.

National Union of Assistant Pharmacists.—A lecture was delivered before the Liverpool Branch in the Liverpool Y.M.C.A. Rooms on February 16, by Dr. Llewellyn A. Morgan, on "Summer and Winter Scenes in the Lake District," with Mr. H. Chaloner-Dowdall (late Lord Mayor of Liverpool) in the chair. The entertaining lecture was illustrated by lantern views.

Harrogate Pharmaceutical Association met at the Salisbury Hotel on February 4, Mr. H. G. Mitchell (President) in the chair. The members present included Messrs. Atkinson, Eynon, Fenn (Treasurer), Pattison, Handford, Hines, Ridge, Rogers, Lawrence, Halliday, McMillan, Simpson, Mote, Parkes, and C. B. Southwell (Hon. Secretary). A paper on "The Apothecary and his Wares in Shakespeare's Time" was read by Mr. Pilkington Sergeant and Mr. Beacock, of Leeds, for which the authors were thanked.

Huddersfield Chemists' Association.—At a meeting held on Tuesday evening, February 15, Mr. J. B. Wood presided, and there was a good attendance. Mr. R. C. Walshaw read a paper on "The Present-day Difficulties of the Retail Trader," which dealt chiefly with local municipal restrictions. He advocated combination of all traders in order to bring pressure to bear upon the Government in all matters adversely affecting retailers. This view was endorsed by Messrs. Hadfield, Spurr, Taylor, and France, who joined in the discussion.

Edinburgh C. A. and A. Association.—A meeting was held at 36 York Place, Edinburgh, on Wednesday, February 9, Mr. E. J. Brown, Ph.C. (President), in the chair, when Mr. B. M. Brander gave a lantern-lecture on plant ecology, or the geographical distribution of plants, and the principles which determine such distribution. The lantern-slides included Alpine communities, leaf mosaics, methods of preventing excessive evaporation and choking of stomata, insectivorous plants, and weapons of plants. It was a well-appreciated lecture.

Bath Pharmaceutical Association.—A meeting was held at the Literary Institution on Thursday evening, February 10, Mr. W. J. Hallett (President) in the chair. There was a very large attendance to hear Dr. Preston King lecture on the x rays. He treated the subject from the medical point of view, describing the physical and physiological properties of the rays, then he described and exhibited the apparatus used, showing vacuum and Crookes' tubes working, demonstrating how surgeons discover fractures, locate bullets, etc., in the human body. On the motion of the President, seconded by Mr. Snow, Dr. King was cordially thanked.

Newcastle-on-Tyne Pharmacists' Association.—A meeting was held at the Hôtel Métropole, Clayton Street West, on February 9, the President (Mr. W. Buckley) in the chair. Mr. C. Russell was appointed to represent the Association on the Newcastle-on-Tyne Tradesmen's Association, which is to discuss the question of holidays. Mr. H. W. Noble then read a paper entitled "The Resuscitation of Rubbish." This dealt with the utilisation of by-products in the manufacture of gas and alkali. An interesting part of the lecture was an account of the methods of making galalith from the casein of milk, and a range of samples of this substance was shown. Galalith is non-inflammable. Mr. Noble was thanked for his paper.

Worcester Chemists' Association.—The annual general meeting of this Association was held at the Star Hotel on February 10, There were present the President (Alderman J. A. Steward, J.P.), in the chair, Messrs. Aubrey, Perkins, C. A. Steward, Haywood, Coverdale (Worcester), Bavis, Gedge (Malvern), Maurice Smith (Kidderminster). Reference was made to the loss the Association had sustained by the death of Messrs. Hornblow (Worcester) and E. J. Clark (Malvern Wells). The accounts for 1909 were submitted and passed, after which the President, Vice-Presidents, and officers were re-elected. Mr. Smith was elected to serve on the committee in the place of the late Mr. E. J. Clark. Mr. Hemming was re-elected Hon. Solicitor to the Association.

Birkenhead and Wirral Pharmacists' Association.—A meeting was held on Thursday evening, February 10, at the Association Rooms, Hamilton Street, Birkenhead, Mr. C. H. Sturt (President) in the chair. A very good muster of members attended to hear Dr. Stenhouse Williams, Professor of Hygiene at the Liverpool University, on the life-story of Dr. Sommerweiss, Vienna, whose hygienic work in the Lying-in Hospital there sixty years ago reduced puerperal fever enormously by throwing light on the cause of the disease, which he discovered through Dr. Kłowsky, his chief,

being himself fatally infected with the fever. Sommerweiss's work has recently been discussed in the medical journals, and the subject proved to be of decided interest to chemists. On the motion of Mr. Cooling, seconded by Mr. Stones, Dr. Stenhouse Williams was thanked for his lecture.

Nottingham Pharmaceutical Association.—A meeting of this Association was held on February 15, under the chairmanship of Mr. W. Gill (Vice-President), the other members present being Messrs. F. Ross Sergeant, A. Eberlin, S. Royce, A. Middleton, W. Meakin, D. Ellis, T. Wilson, H. P. Middleton, T. Prince, W. Clay, H. A. Dickenson, and T. Freeman and E. E. H. Turton (Secretaries). Messrs. R. P. Crecraft and A. E. Hallam were elected members, and Messrs. H. A. Dickenson and W. N. Moulds associates. Mr. S. Royce read a paper on "Drugs: Their Deterioration and Preservation," in the course of which he outlined the agencies which cause decomposition in chemicals and drugs. Blue is the most unsuitable colour for the bottles in which drugs are preserved, amber bottles being the best. The insects which attack drugs are best destroyed by fumigation with carbon bisulphide. A vote of thanks was passed to Mr. Royce for his paper.

Irish Chemists' Assistants' Association.—At the meeting held at 48 Talbot Street, Dublin, on February 10, Professor P. Kelly lectured on "Chemists and Chemistry." This began with an account of the rise of chemistry, the remarks being illustrated by lantern-slides. He indicated the methods of becoming a professional chemist, and, although he did not think the future of chemistry encouraging, there is no fear but that a man with ability will get on in the profession. The lecturer was thanked for his address. It was announced that Mr. J. C. Umney, F.C.S., has offered an annual prize, valued at £1., for competition among unqualified members.—On the same evening a branch of the Association was formed at Belfast. The meeting took place at the Avenue Hall, Garfield Street, Mr. F. A. Reilly being in the chair. Mr. Harmel and Mr. Morrow were present as delegates from the Dublin headquarters. The next meeting was to be held on February 16 for the election of officers.

Halifax Chemists' Association.—A meeting was held on February 8, the members present being Messrs. W. R. Black (President), B. C. Hodgson and J. E. Binns (Vice-Presidents), C. Fielding, W. R. Fielding, P. W. Swire, J. W. Tiffany, W. Lumb, L. Chambers, and R. V. Sutcliffe (Secretary). The following resolution was passed and directed to be sent to Messrs. Allen & Hanburys:

That the members of the Halifax and District Chemists' Association wish to thank Messrs. Allen & Hanburys for the action they are taking with regard to the protection of their patent foods, and extend their best wishes for the success of such action.

The following resolution was ordered to be sent to the manufacturers of Vichy water:

That the members of this Association are greatly surprised at the action which the makers of Vichy water have recently taken regarding the alteration of prices of Vichy water, and that they consider the small margin of profit allowed quite inadequate.

The Secretary of the P.A.T.A. is also to be informed that the terms on which Vichy water has been admitted to the P.A.T.A. are most unsuitable.

Sheffield Pharmaceutical and Chemical Society.—A meeting was held at the rooms of the Literary and Philosophical Society, Church Street, on Wednesday evening, February 16, Mr. Percy Carr (President) in the chair, when Mr. W. S. Glass, Ph.C., read a paper on "The Waters of the B.P.," in the course of which he described the methods of preparing the aromatic waters which owe their properties to essential oils. He considered the waters distilled from fruits to be inferior to those made from essential oils, and described the U.S.P. (calcium phosphate) and similar methods of preparing such waters. He prefers the hot-water method first advocated in 1874 by an American pharmacist. A discussion followed, in which the President, Mr. Douglas, Mr. Appleton, Mr. Dixon, and Mr. Jackson took part. Mr. Jackson asked for opinions on a difficulty he is occasionally placed in by customers coming to his back door for Wincarnis and Vibrona after shop hours. Several members said their practice is to confine the sale of these wines to the time licensed houses are open. The hon. Secretary reported that the Council had amended By-law 4 (dealing with subscriptions), so as to provide for the same subscription (*7s. 6d.*), and if in arrears for more than six months, the privileges of membership and associateship will be forfeited.

Glasgow and West of Scotland Chemists' Association. A meeting was held in the Regent Tea-rooms on February 10, Mr. J. P. Gilmour presiding in the absence of Mr. J. W. Sutherland (the President) through illness. There was an unusually large attendance, forty-three being present. Mr.

J. Rutherford Hill delivered an address on "Current Pharmaceutical Topics." After describing the movement which culminated in the founding of the Pharmaceutical Society in 1841, and mentioning its objects, he recalled the fact that numerous poisoning-cases in 1850-51 did much to bring the necessity for legislation under the notice of the Government. He then dealt with the Pharmacy Act, 1868, and said that, owing to the careful working of it, the public, for the most part, now fail to realise what the danger from poisoning really was. He next referred to the 1908 Act, and considered that the Associations had done well to oppose, even at considerable expense, the indiscriminate granting of licences by local authorities. By protesting, pharmacists had thrown on these bodies the whole responsibility, and had thereby shown that they would not be held as consenting parties to any scheme which facilitated the sale of poisons. Although at the passing of the Act it was urged that the word "Pharmacist" would never become one in common use, he thought that in the course of time it would be as popular with the public as the word "Dentist." The policy for the immediate future he defined as one of consolidation as opposed to one of a provocative nature, and in closing he urged upon pharmacists the necessity for making themselves fitter for the position they occupied.

Western Chemists' Association.—A meeting was held at the Restaurant Frascati, London, W., on February 16, Mr. J. T. Barrett presiding, when Mr. W. J. U. Woolcock gave an extempore discourse on "Sterilisation." In touching upon the sterilisation of dressing, the lecturer emphasised the necessity of using moist heat, starch-iodide paper being the most effective method of testing for the presence of water-saturated steam among the materials in the sterilising chamber. In preparing hypodermic injections it is advisable to use Jena glassware, and wherever possible all preparations should be sterilised in the vessels in which they are sent out. Examples of ampoules and the mode of filling them were demonstrated, and specimens of sterilised iodoform emulsion and bismuth paste were shown. In making the former crystal iodoform should be used, rubbing it down in a sterile mortar with a little absolute alcohol (5ss. to gr. x). The mixed sterilised glycerin and water is added gradually, but as quickly as possible, and the emulsion poured back into the sterile container. Mr. R. R. Bennett followed with a few remarks on the preparation of *cremor mercurialis*, in making which he advocated the use of finely precipitated mercury, obtained by reducing solutions of mercury perchloride with hypophosphorous acid or formaldehyde. He also dealt with the sterilisation of cat-gut, advocating the sulpho-chromate method in which a solution containing chromium sulphate and mercury perchloride is used. Mr. John D. Marshall described the method of packing and sterilising dressings used by Messrs. John Bell & Croyden, Ltd. The best form of container for sterilising dressings was the central subject of the discussion that followed.

Chemists' Assistants' Association.—A larger company than usual assembled at 73 Newman Street, London, W., on February 10, to hear a lantern lecture by Professor H. G. Greenish. Mr. F. L. K. Loxley (President) occupied the chair. The lecturer showed many slides illustrating chiefly the commerce and collection of drugs, a running commentary being given on the principal points in the illustrations. In introducing his subject, Professor Greenish said he wished to illustrate a side often lost sight of in studying materia medica. The student who holds to the antiquated idea that the science consisted in "spotting drugs" finds it as "dry as old bones." Knowledge regarding the subject is rapidly extending, and the time is not far distant when drugs will not be classified as at present, under leaves, rhizomes, etc., or according to natural orders, but according to their chemical affinity—namely, atropine-containing drugs, etc. The first slides were photographs of London drug-wharves. The various warehouses were illustrated next, and the appearance of numerous original packages explained. Gum shows, working of tragacanth, brokers' showrooms, and the drug floor at Crutched Friars were also thrown on the screen, the limelight tour ending outside the London Commercial Sale Rooms in Mincing Lane, where the drug auctions are held. Original packages of crude drugs, photographed in the warehouses of Messrs. Wright, Layman & Umney, followed, among them being gentian, peeled and unpeeled liquorice, poppy capsules, senna, kola seeds, sarsaparilla, and various essential oils and aromatic waters. Two fine photographs of Messrs. Burgoine, Burbidge & Co.'s warehouses, showing piles of drug-packages, completed the commercial series of slides. Rubber production was illustrated next, commencing with the plantation and ending in the rubber vaults at St. Katharine's Wharf. Curious Oriental figures and vases made of rubber caused considerable amusement. For illustrating the production and collection of acaia gum the unique photographs belonging to Messrs. Burroughs Wellcome & Co. from the third report

of the Gordon College at Khartoum, were used. The peeling of cinnamon shoots was shown, as also drying the bark, removal of the outer bark, and packing the strips in quills. Fields of hyoscyamus, henlock, aconite, belladonna, lavender, and peppermint on the farms of Messrs. Stafford Allen & Sons were depicted next, while illustrations of the various forms of rhubarb of commerce closed an interesting account, highly appreciated by the company. A hearty vote of thanks was accorded to Professor Greenish. [The remarks on cascara sagrada in our report of the previous meeting (*C. & D.*, February 12, p. 260) are now disclaimed entirely by the speaker (Mr. F. W. Crossley-Holland), who writes: "In the first place, my remarks dealt with ext. cascara liq., and not with tablets. I stated that I once asked the distinguished chemist if there was a ready and easy test for the detection of aloin in liquid cascara, and he replied in the negative. This was the only reference made to him."]

Portsmouth Pharmacists' Association.

The annual meeting of this association was held at the Photographic Society's rooms, Pembroke Road, on February 16. Twenty-two members were present, under the presidency of Mr. T. H. Cruse.

SECRETARY'S REPORT.—The Hon. Secretary, Mr. T. O. Barlow, gave a full account of the association's transactions, business and social, during the past year, which record showed that the association had fully justified its existence.

TREASURER'S REPORT.—The Hon. Treasurer, Mr. S. Rogers, produced his balance sheet, which showed a surplus of over 11*l.*, out of which 2*l.* was subsequently voted to the Benevolent Fund of the Pharmaceutical Society.

NEW OFFICERS.—Mr. T. H. Cruse, in relinquishing the presidency, said that when he undertook the position he was unprepared for the honour, but now that the association had been so firmly established he was glad to stand aside for a younger man. There was cause for mutual congratulations on the work accomplished. He thanked the members for their support and forbearance, and hoped to give them still his interest and assistance for many years to come. Mr. T. A. White was then elected as the new president, and Mr. W. A. Bell, vice-president, Mr. T. O. Barlow and Mr. S. Rogers continuing respectively as secretary and treasurer. The ballot for seven members of committee, two of whom represent the outside districts, resulted as follows: Messrs. C. H. Baker (Cosham), E. H. Smith (Gosport), Donaldson, Gresswell, Postlethwaite, Sparrow, and Tremlett. Mr. G. H. Orme (Messrs. Cruse & Co., Ltd.) was elected a member. The usual votes of thanks to retiring officers brought a very harmonious meeting to a close.

Manchester Pharmaceutical Association.

The fifth meeting of the session was held at the Victoria Hotel on February 9, when Mr. Wm. Kirkby, M.Sc., gave a lantern lecture, entitled

A SEVENTEENTH-CENTURY QUACK.

This was Wm. Salmon, born June 2, 1644, who combined in his personality literary ability with a pronounced commercial instinct which enabled him to amass a fortune. His first book, the "Synopsis Medicinæ; or, Compendium of Astrological, Galenical, and Chemical Physic," was published at the age of twenty-seven, by which time he had visited the New World and gained considerable knowledge of its natural products. In his "Doron Medicum" he describes rhubarb as the soul of the liver, a title surely befitting its Oriental origin. He adduces evidence to prove that the elephant has a soul or religious instinct. Salmon's literary output was enormous, some fifty productions emanating from his pen during his lifetime, and all are closely printed and crammed full of information on all sorts of subjects. In the preface to the "Synopsis Medicinæ" he enumerates twelve authors on mathematics or astrology, sixteen on chemistry, seventeen on anatomy, twelve on surgery, and twenty-one on medicine, which he had consulted. One of the articles in this book, called "Our Catharticum Argentum," or Silver Purge, he sold at 5*s.* the ounce bottle, or 2*s.* 6*d.* the half-ounce bottle, and he generously admits the public into the secret of its composition and preparation, without, however, the public being any the wiser. In his "Sepiasium, the Compleat English Physician; or, the

Druggist's Shop Opened. a preparation of bees is recommended as a diuretic, which is one of the properties ascribed to formic acid so recently as 1907. Two and a half pages of the "Polygraphices"—a collection of recipes for all sorts of things—are devoted to puffing a skin cream or cosmetic, described as "An Incomparable Cosmetic of Pearl," sold at 7s. an ounce. This book of recipes went through seven editions, or 15,000 copies. A vote of thanks to the lecturer was carried unanimously.

York Chemists' Association.

A Meeting was held at the Old George Hotel on February 9. The members present were: Mr. Dewhurst (in the chair), Mr. W. C. Birks, Mr. M. F. Burgin, Mr. F. G. Hey, Mr. A. Humphreys, Mr. J. A. Lupton, Mr. C. Midgley, Mr. F. A. Newey, Mr. J. R. Parker, Mr. W. J. Parker, Mr. W. P. Saville, Mr. A. Scruton, Mr. G. E. Walker, Mr. J. Weavers, and Mr. T. C. Atkinson.

A paper was read by Mr. J. Evans, F.I.C., public analyst, on

THE TESTING OF DRUGS FOR PURITY.

This consisted of suggestions as to the standard of various drugs, with indications of simple methods of testing for adulterants. Spiritus retheus nitrosi should be periodically tested to see that it does not fall below the B.P. minimum strength. Milk of sulphur prepared with sulphuric acid is occasionally met with, therefore should be tested for the amount of ash. Beef-fat in lard is detected under the microscope by the fan-shaped crystals which are deposited from an ethereal solution. Halphen's reaction is used for detecting cotton-seed oil. Compound rhubarb-powder should yield about 69 per cent. of ash. Referring to camphorated oil, Mr. Evans said that 1 per cent. of camphor increases the sp. gr. of olive oil by 0.0005, so that if a sample of the oil used is checked with the sp. gr. of the finished oil the percentage of camphor can be deduced. For the determination of quinine in quinine-wine one or two fluid ounces of the sample is evaporated in a very low bulk to get rid of the alcohol. The residue is now diluted with water, transferred to a separator, and a few drops of dilute hydrochloric acid added and 30 c.c. of ether, and the mixture well shaken. The aqueous layer separated from the acid layer is now made distinctly alkaline with ammonia and extracted with three successive quantities of ether. The ethereal liquors are mixed, distilled off, and the residue of quinine dried and weighed. From the weight of quinine found the amount of quinine hydrochloride can be calculated. Compound liquorice-powder is liable to contain ground olive-stones and exhausted fennel, and insect-powder is chiefly adulterated with lead chromate and turmeric. Mr. Evans then mentioned the impurities and adulterants of chemicals, fixed and essential oils, and powdered drugs, and concluded with a reference to some saccharin tablets which were found to be plaster of Paris dusted over with saccharin. A few questions were asked at the close, and Mr. Evans received a hearty vote of thanks.

Liverpool Chemists' Association.

A MEETING was held at the Royal Institute on Thursday evening, February 10, Mr. Wokes presiding. There were present Messrs. Barr, Brisby, Buck, Collins, Haddock, Holden, Jones, Last, Lenton, Marsden, Robinson, Sendall, Symes, Underwood, Whitaker, Wyatt, Wynn, and others, including reporters for the local newspapers.

OFFICE BEARERS.

Mr. Barr, Secretary, announced that the Council had re-elected Mr. Harold Wyatt as Vice-President, Mr. W. Willings as Treasurer, and Messrs. A. Steen Barr and H. Humphreys Jones as Hon. Secretaries. The following committees had also been appointed:

Messrs. A. C. Abraham, Buck, Last, Marsden, Symes, Wokes, and Wyatt as Codex Committee.

Messrs. Abraham, Barr, Marsden, and Wyatt as Library and Museums Committee.

Messrs. Symes, Wokes, and Wyatt as Educational Committee.

MISCELLANEOUS COMMUNICATIONS.

Mr. Marsden drew attention to the recent case in which plaster of Paris mixed with arsenic had been used in mistake for flour. He recalled the Bradford case many

years ago, when a similar mixture had got into some peppermint lozenges, causing several deaths.

Mr. Wyatt said that the man who had traced the source of the arsenic in the Bradford case was a chemist—Mr. Remington. But for his discovery and the prompt measures taken to prevent further consumption of the sweets, including the sending round of the town-crier, the mortality would have been much greater. Mr. Wyatt also drew attention to the recently-published report of prosecutions undertaken by the Pharmaceutical Society, and his remarks were supplemented by Mr. Robinson.

Mr. Barr mentioned two instances to illustrate the President's remarks at the last meeting on the prescribing of "patents." In the first case, Petroleum Emulsion was prescribed, and, no make being specified, his own firm's preparation had been sent, but the doctor had said that Angier's should always be supplied whether specified or not. The second case was a prescription for "Resinol 3j., m.d.u." This was taken out of a 4 oz. pot, but the doctor said it should be supplied in original package.—Mr. Wyatt said the right course had been followed in both instances. It is a golden rule, he added, to always destroy the identity of dispensed "patents."

Mr. L. Moreton Parry then delivered an address on

THE CO-OPERATIVE MOVEMENT IN PHARMACY.

In his preliminary remarks, Mr. Parry pointed out that while the State demands that the individual pharmacist should be worthy of his title and compels him to prove this by statutory qualification, whenever he obtains the latter (at great expense to himself), the State disowns him in several directions, especially by granting "the same privileges to any group of incompetents with sufficient capital to form a joint-stock company and pay an irresponsible employé." Mr. Parry urged that something should be done to curb the development of the multiple-shop evil, and deprecated the modern method of business under which certain "patents" are sold at a loss and the deficit made up with higher prices of articles of the value of which the public has least knowledge. He also referred in scathing style to the advertising of remedies to the public in extravagant terms, and described the procedure by which, in his opinion, companies have prospered and extended so as to make the future of the individual chemist precarious. He then spoke at some length on secret remedies and nostrums as advertised to the public and prescribed by medical practitioners. He considered, however, that the public will always demand ready-made remedies, and, provided they can be made of unquestioned efficacy at a fair price, he thought there is no reasonable argument against supplying the demand. The only persons capable of compounding medicines properly are, he said, the qualified pharmacists, and he added that there is not a proprietary advertised that cannot be prepared and supplied to better advantage in pharmacies. The difficulty is how to convince the public of that advantage, and this had given birth to the co-operative movement which had culminated in the evolution and foundation of Ucal. Mr. Parry then described in detail the history of this enterprise, its articles of association, and its purposes as a business and ethical proposition. Parenthetically he remarked (and this is a fair specimen of the literary style referred to later by speakers as "poetic")—

"I am firmly convinced that the glow of dawn is in the dull sky of pharmacy, that the sun is rising, that the near future promises brighter prospects and fairer trading conditions for our fellow-craftsmen. Yet not because our opponents are already conquered, not that the fight is likely to prove less strenuous, but that the greater part of our scattered units will be fighting together, drilled and marshalled under the Ucal flag. Not at Trafalgar, but at Waterloo, an almost insignificant land-battle, was the power of Napoleon crumbled. Not in the halls of Westminster, not in the stormy sea of party politics, not in a battle fought by deputies, however loyal and valiant, but on the great battlefields of business will the fight of pharmacy be fought to a finish. Gentlemen, we cannot compel you to join our ranks, and would not if we could. We only appeal to your sense of fair play, and ask, especially those of you who so often claim to have the interests of the craft at heart. Is it fair to watch your comrades bearing the brunt of the battle?"

Mr. Parry concluded with an appeal to the members to become Ucal customers.

The President, in opening the discussion, dissented from Mr. Parry's remarks regarding the dire position of pharmacy, and denied that the pharmacist's expensive education all ran to waste. He expressed his appreciation of the address, and moved a vote of thanks for it.

Mr. Wyatt seconded, he also commending Mr. Parry's enthusiasm and condemning his conclusions. Pharmacy, he said, could not be in such a parlous state when, for instance, chemists were so eager to turn up at their whist-drives in dress suits. Mr. Parry was clean away from fact in saying that chemists would not sell goods that their neighbours handled; they would sell whatever was in demand. Chemists are not philanthropists, although a large number of people still seem to think they are. For instance, people wishing to consult a directory usually go to the chemist, who, with his perfectly Chesterfieldian manners, looks out the requisite information for them, and then they probably growl because his directory happens to be two years old, or they come in for a stamp, which the chemist licks and puts on for them. As they go out they might say "thank you," but if it was a "lady" probably she wouldn't even do that. If Ucal is as good as Mr. Parry had said, philanthropy is not dead yet. Utopia is not far off if they could continue with unpaid directors. One-tenth of Mr. Parry's expectations might come true, and, if so, chemists as a body would have reason to thank Ucal.

Dr. Symes said that it had been the most interesting and entertaining evening that he had spent at the Association for some time. At the present time responsible men in pharmacy are arguing that they must rely for success chiefly on personal ability and individuality, and it is a weak point of Ucal, he remarked, that it tends to destroy that individuality. Another weak point was that they had not only to fight co-operative stores, but also black sheep in their own flock. He saw nothing to prevent the Ucal preparations being sold below the fixed prices. Mr. Parry's speech had been fair, though not altogether without flourish, but that was where Mr. Parry's individuality came in. If all connected with the movement did as much as Mr. Parry it should go on and prosper.

Mr. Marsden having spoken briefly,

Mr. Parry, in replying, said that every Ucal preparation was marked with the actual selling price. They had a checking system which enabled them to find out where any bottle was supplied from, and they only supplied members with goods. He had hoped that this might have been an open meeting for local chemists, but the President could not see his way to that. He appealed for constructive criticism, and the meeting closed with acclamation for Mr. Moreton Parry.

Festivities.

Ferris Clubs.

The combined clubs carried on by the employees of Messrs. Ferris & Co., Bristol, was held last week at the Bristol Restaurant, Wine Street. The four clubs—cricket, horticultural, cycling, and rifle—were well represented. The prize distribution took place after dinner, and toasts, "The Combined Clubs," "The Firm," and "The Visitors," were honoured. Songs and pianoforte selections were given during the evening.

N.U.A.P. Smoker.

The Bristol branch of the National Union of Assistant Pharmacists held a smoking concert at Stuckey's Restaurant, on February 9. The members and friends who were present numbered nearly fifty. Mr. E. J. Sharpe, President, was in the chair. Mr. Southwood gave Devonshire dialect recitations, and Messrs. Barnes, Newton, Knott, Findlay, Nicholls, Rogers, Tandy, Treleven, Walker, and Dowty took part in the musical programme. The evening was brought to a close at 12.30 A.M.

Whist-drives.

A whist-drive and social in connection with the Preston Chemists' Association was held on February 10 in the Geisha Assembly Room, about sixty persons being present. Whist was played until 10 P.M., when refreshments were

partaken of, the remainder of the time being occupied in singing and dancing. Songs were rendered by Mr. R. Shepherd, and Mrs. Fisher acted as pianist. Recitations were given by Mr. Ammitage. The President distributed the prizes.

A whist-drive was held by the past and present students of the Westminster College of Pharmacy at Caxton House, London, S.W., on February 14, the anniversary of the birthday of Mr. G. S. V. Wills, the Principal. The first ladies' prize was won by Miss Cox, and the first gentleman's prize by Mr. Winston. Mr. J. Smith, on behalf of the students, congratulated Mr. Wills, and wished him many happy returns of the day. The company dispersed about 11.30, after spending a very enjoyable evening.

Stockport Pharmacists' Association.

The annual dinner took place on February 10, at the County Restaurant, when the President, Mr. W. P. Orrell, occupied the chair. The toast of "The Pharmaceutical Society," proposed by Mr. T. Woodruff, was replied to by Mr. W. S. Glyn-Jones, barrister-at-law, who spoke of the advantages of local associations in removing prejudice and suspicion in regard to one's neighbours. In modern business new developments and fresh forces have to be faced, which tendency had shown itself in recent legislation. Pharmacists have important duties to discharge towards the public, and to preserve the best traditions of the business. "The Visitors" was proposed by Mr. G. Bennett, and responded to by Mr. T. Kay, J.P., Mr. Lane (Jas. Woolley, Sons & Co., Ltd.), Alderman Dr. Smeeth, and Councillor J. Jones (Salford). "The Association" was proposed by Dr. Corbin (Medical Officer of Health for Stockport), and to this Mr. R. T. Forbes replied. The speeches were interspersed with songs and recitations by Mr. J. H. Franklin, Mr. T. R. Swinburne, Mr. Bellis, Mr. E. Wilson, and Dr. Smeeth.

Tunbridge Wells Association.

The annual supper of the Tunbridge Wells Association of Pharmacists took place at the Castle Hotel on February 8. Among those present were Messrs. J. H. Bishop (President), G. Batting (Vice-President), Councillor A. E. Hobbs, Robbins (Bexhill), Booth, Harden, Green, Harris, Holdsworth, Godkin, Gale, W. A. Phillips, Phillips, and Webb (Hon. Secretary). After dinner the President proposed the toast "The Pharmaceutical Society," which was replied to by Mr. A. E. Hobbs, who, in the course of his remarks, said that in framing regulations providing for the training and examination of candidates, he would support any scheme which would in a practical way make provision for the steady and consistent training of students, from the time their pupilage began until they had passed the qualifying examination. Opportunities are offered in most towns for the preliminary stages of such a training, and it only requires the framing of suitable regulations for the guidance and instruction of both master and pupil, in order that the best use might be made of the period of apprenticeship. Mr. Robbins (Bexhill) proposed the toast of "The Association," to which Mr. Webb responded. The toast of "The Visitors" was proposed by Mr. Booth, and replied to by Dr. Miller, Mr. Biggs, and Mr. Chalmers. A programme of music and sketches was rendered during the evening by Messrs. Prince, Chalmers, Booth, and Phillips, with Mr. W. A. Phillips as accompanist.

Blackpool and Fylde Pharmacists' Association.

The annual dinner of this Association was held on February 9 at the Palatine Hotel, Blackpool. Mr. W. Leslie Mayson presided, and supporting him were Mr. J. Rymer Young, Mr. A. J. Chater, Mr. F. Boothroyd (President), and Mr. D. J. Bailey (Hon. Secretary). The following members of the Association were also present: Messrs. Laurie, Sankey, Johnson, Huddart, Greenwood, Withers, Turver, J. H. Taylor (St. Anne's), Rosenzweig, Needham, Mallalieu, Watson, Parker, Smithurst, Wellings and Nalf (Evans Sons Lescher & Webb, Ltd., Liverpool), Wood (Thompson's, Liverpool), Crossley (Oldfield, Pattinson & Co., Manchester), and Marsden (Warriek Bros., London). The toast of "The Pharmaceutical Society" was proposed by Mr. D. J. Bailey. Mr. Rymer Young,

who responded, thought the last year's working of the new Act had been satisfactory in almost every particular. He said that in regard to the power the Society had to divide the Minor examination, this cannot be effected before the curriculum is established, but this is receiving the serious attention of the Council. Bearing in mind the future of the rising generation of pharmacists, he considered the Society is exercising a wise discretion in not using this power without the most scrupulous and exacting care in the gathering together of all the facts bearing on the question. He realised that a new era is dawning for pharmacy on its professional side, and although many present would not see the calling take its rightful place in the professions, yet he had not the slightest doubt in his own mind that the future pharmacists of the country would be participants in the benefits that would accrue from the strenuous exertions of the Society during the immediate past and the present. Mr. A. J. Chater also spoke, and dealt with topical questions of pharmacy. Mr. H. P. Withers proposed the toast of "The Wholesale Drug-trade," which was responded to by Messrs. Nall and Wood. The "Blackpool and Fylde Pharmacists' Association" was honoured on the call of Mr. F. D. Crossley, the response being made by Mr. F. Boothroyd, the President. On the proposition of Mr. J. W. Huddart, the health of "The Visitors" was drunk, and Mr. W. Wellings replied. Mr. J. W. Greenwood dealt with the toast of "The Artists," the reply being made by Messrs. Turver and R. Hall. The musical items were contributed by Messrs. R. Hall, A.R.C.M., F. Atkinson (South Shore), F. Marsden (Southport), Cameron (St. Anne's), and C. H. Turver. Mr. A. Vivian Jackson played the accompaniments.

The Japan-British Exhibition.

The Duke of Norfolk presided on Monday evening, February 14, at a dinner given by the Council of the Japan-British Exhibition in the Grand Hall of the Hotel Cecil to meet His Excellency the Japanese Ambassador and Mr. Hikojiro Wada, Commissioner-General of the Imperial Japanese Government to the Exhibition. The company numbered about 500 and comprised many distinguished men in art, industry, politics, and science; it was also representative of those who are participating in the arrangements for the Exhibition. Sir Boverton Redwood, Professor W. Gowland, and Sir Alexander Pedler were amongst the chairmen of the spur-tables. Amongst those present were Dr. Wynter Blyth, Dr. E. Divers, Mr. Chas. P. Gosnell, Mr. Geo. T. Holloway, Mr. Peter MacEwan, Dr. G. T. Morgan, Mr. Thos. D. Morson, Dr. F. Mollwo Perkin, Mr. W. F. Reid, Mr. R. A. Robinson, Mr. Thos. Tyrer, Mr. J. C. Umney, and Mr. G. Ainslie Walker. After dinner the loyal toasts were honoured; then the Duke of Norfolk gave "His Excellency the Japanese Ambassador, and Prosperity to the Commercial Relations between the two Island Empires." This having been acknowledged in a clever and dignified speech, a welcome was given to Mr. Wada by the Lord Mayor of London, who was followed by Mr. T. McKinnon Wood, M.P., Sir Melvill Beachcroft, Mr. Imre Kiralfy, Mr. Walter Fowler, and Sir Boverton Redwood, the last speaking in the absence of Sir Henry Holland, Bart., M.P. Sir Boverton mentioned that although in certain departments of industry it is not expected that this country will at the Exhibition compare with the exhibits of Japan in attractiveness and variety, the exhibits of British engineering will be in certain respects unique. Mr. Wada, in reply to the toast, made a speech in English for the first time. He mentioned that since the Exhibition was decided upon, manufacturers in Japan set aside local and individual interests and at once devoted themselves to the task of doing their utmost to render their nation's exhibits in England a great success. Public institutions and the Government had also taken such interest in the enterprise that they determined at the outset to display something quite on different lines from anything that had hitherto been attempted either at home or abroad. The proceedings concluded with the toast of "The Chairman," given by Lord Strathcona. The Exhibition promises to be even more attractive than was the Franco-British Exhibition of two years ago. Mr. Imre Kiralfy

stated in the course of his remarks that the forwardness of the Japanese sections is remarkable; he had never, in all his experience, seen better organisation and expedition than those shown by the Japanese gentlemen now working at Shepherd's Bush.

Brushmakers Dine.

There were well over fifty diners at the Criterion Restaurant, Piccadilly, W., on Thursday evening, February 10, gathered together to celebrate the second anniversary of the birth of the British Brush Manufacturers' Association. "The Association," said the President (Mr. Ernest N. Kent), "is two years old, and under the careful attention of Nurse Till it is developing into a healthy infant. You will all observe how well it takes its nourishment, and during the past year it has made some noise and has given some people the idea that it is somewhat precocious." The President's facetious comments were fully endorsed by his brother brushmakers, who were unanimous in agreement as to the value of the new Association to the British brush-trade generally. Replying to the toast of "The Association" (proposed from the chair), the Hon. Treasurer (Mr. C. Hamilton Watkins) said the success of the past two years had proved conclusively the need for an association of the kind. Their membership had grown, but more members are wanted. Personally he wished there were more treasure for the Treasurer to treasure, and he suggested that the Association had done so well for its members during the past year that the subscription might be doubled. This suggestion did not appear to meet with universal approval, but Mr. Watkins carried his audience with him when he urged that members should state on their invoices that they belonged to the Association, and thus let customers know that goods bought from members of the Association were guaranteed. The Vice-President (Mr. R. W. Chase, of Birmingham) eloquently proposed the health of "The President." He said the firm of G. B. Kent & Sons, Ltd., was one that had for over 100 years maintained the best traditions of British trading. The wide technical knowledge of the trade possessed by Mr. Ernest N. Kent had been of the greatest assistance to the Association, and had contributed largely to its success. Mr. Kent, in addition to an intimate knowledge of all the intricacies of the brush-trade, was a horticulturist and botanist of no mean capacity. The toast was heartily received, and the President replied briefly and modestly, after which Mr. F. G. Howard (Titterton & Howard) gave "The Visitors," Mr. Howland (Chesnut Cooper & Co.) responding. Among the company (besides those mentioned) were Messrs. Arthur Kent (G. B. Kent & Sons, Ltd., London), F. Ward (F. Foulger & Co., London), A. W. Cook (Newton & Cook, London), A. Mason and Salinger (John Mason & Sons, London), Rose (Brushes, Ltd., St. Albans), W. E. Clark (D. Clark & Sons, Walsall), W. A. Greenslade (London), A. L. Burrow (Davis, Burrow & Co., Leeds), George Tyrie (London), H. W. Aldrich, B. W. Baggs, F. N. Ault, and representatives of S. Ludbrook & Co., Ltd. (London), G. Bacon & Co., Ltd., John Palmer & Sons (Plymouth), W. R. Tilbury & Co. (London), J. Avons & Sons, Ltd., A. Marks & Son (London), and Alex. Reid & Sons (London). During the evening Mr. Arthur Kent disclosed other evidences of his great versatility by giving a couple of amusing recitations. His tale (in broken American) of a German and a Yankee insurance agent was very funny and cleverly rendered. Songs were given by Mr. Frank Hicks, Mr. J. W. Dear, and Mr. W. Wuntzburg, and the function was voted an entire success.

West Ham Pharmacists.

The annual dinner of the West Ham and District Association of Pharmacists was held at the London Tavern, Fenchurch Street, London, E.C., on February 10. The chair was taken by the President (Mr. Henry Soper), and he was supported by the following:

Sir Edward Evans, Mr. J. C. Umney, Mr. A. C. Wright, Mr. David Howard, Alderman G. J. Hosking (Mayor of West Ham), Mr. J. F. Harrington (President of the Pharmaceutical Society), and Dr. W. Lauzun-Brown. There were also present Mr. F. Truman (London Chemists' Association), Mr. C. W. Martin (S. Maw, Son and Sons), Mr. T. R. Williams (W. L. & U.), Mr. W. R. Barnes (Vice-President), Mr. W. W. Blades, Mr. A. H. Cleland, Mr. J. H. Matthews,

Mr. Harold Mitchell, Mr. W. Potter, Mr. T. E. Seed, Mr. J. E. Evans (Hon. Secretary), Mr. A. Boys (Baiss Bros. and Stevenson), Mr. H. T. Butler and Mr. Pirrie (Canwal, Ltd.), Mr. Ainslie (Parke, Davis & Co.), representatives of Messrs. T. Christy & Co., Mr. A. C. Present (Sangers), and Mr. W. J. U. Woolcock.

The loyal toast followed a well-served dinner, and then came the toast of "The Houses of Parliament," which was proposed by Mr. J. C. Umney. He alluded to the proposed increase in the spirit-duty, and then paid a very high compliment to the services to the drug-trade of Sir Edward Evans, who was sitting beside him. In the absence of any member of Parliament, the toast was replied to by Sir Edward Evans, who said this was the first Association dinner he had attended in London, but he found the same frame of mind and spirit of unity as at similar functions in the country. After a playful allusion to the House of Lords, the speaker said the House of Commons is entitled to respect, as it is exactly what the people desire it to be. The constitution of the House of Commons can be altered at the will of the electors. Alluding to his long connection with political affairs, Sir Edward asked his hearers to bear in mind that it is principles rather than persons that are being fought. He had some of his staunchest friends among his political opponents. He regarded the House of Commons as the finest legislative assembly in the civilised world—(hear, hear)—and all had good cause to be jealous of the reputation of those whom they sent there. Sir Edward then spoke of the benefit of local associations, drawing a parallel from the Lancaster Association, which he recently addressed (*C. & D.*, February 5, p. 228). The next toast was that of

"THE PHARMACEUTICAL SOCIETY,"

which Mr. David Howard proposed. He said that if there is anything in the Mendelian theory he ought to have inherited some pharmaceutical traits, as his father and grandfather were founders of the Pharmaceutical Society. The man in the street is sometimes told by those who do not know better that the cost of the ingredients in a prescription is only a penny. "Well," said Mr. Howard, "I shouldn't care to take a pennyworth of my strychnine. I much prefer that prescriptions containing it be dispensed by a skilled pharmacist." In the older days patients must have their physic nasty, otherwise they did not believe in it. He recalled a case where a club doctor supplied a colourless mixture to a patient, who complained to the committee of management that the doctor prescribed water for him. "Well," said the doctor, "if it is only water you might try the effect of drinking the lot." The mixture was a solution of tartar emetic, and the patient was soon convinced that a tasteless and water-white liquid can sometimes produce very drastic effects. Mr. Howard proceeded to speak of the modern forms of medication, which require just as much care in preparing and dispensing. The pharmacist alone can give the skill and knowledge necessary for the handling of poisons, and he (the speaker) had his doubts as to the advisability of entrusting the sale of deadly poisons to grocers and seedsmen. Mr. J. F. Harrington, in replying, said the Pharmaceutical Council is often accused of doing nothing, but the recently published report of the Registrar gives an idea of the vast amount of work which has to be gone through in the year. After repeating some of the statistics given in the report, Mr. Harrington referred to other matters covered by the report, and dealt with the Poisons and Pharmacy Act, and urged those present to trust the Council and not force it to do anything which may not be advisable. Dr. W. Lauzun-Brown, in an interesting speech, gave the toast of "The Association." He said that among professional men there can be no progress without union and unanimity. Mr. Soper (the President) replied, referring to the great danger of isolation and narrow ideas. The last toast, that of "The Visitors," was by Mr. Harold Mitchell, and was replied to by Alderman Hosking, the Mayor of West Ham. During the evening a good musical programme was rendered, and a collection taken for the Pharmaceutical Benevolent Fund, which realised 5l 2s.

NEURALGIA.—Apart from endeavouring to treat the cause, good results may be expected from a combination of quinine and hydrobromic acid.—*Hospital*.

Prescription Problem.

NOT many competitors ventured to send us their solutions to the prescription-reading problem which was set in the *C. & D.*, January 22, p. 116. The problem was not an easy one, and the fact that it was written by a German physician made the difficulties greater. The correct rendering is—

Sol. Ichthargan

0.06 : 150.0

Inj (ection) Au (sserlich)

Herrn Dick

The strength and quantity of the ichthargan solution are indicated. The word "Ausserlich" (external) denotes that the solution is not to be taken by the mouth. The most nearly correct reading was sent by Mr. MAX GRUTER, Pharmacie Internationale, A.G., St. Moritz, Engadin, Switzerland, to whom we are sending a copy of "The Chemist Optician."

The subjoined facsimile is not really a problem, but a prescription recently written by Sir James Sawyer, M.D., Birmingham, and dispensed by a local firm. It shows that the art of writing prescriptions in Latin is not yet dead :

*In tabernâ hodie
medicinam capiat.*

RL-27-1-10

We submit this facsimile as

AN EXERCISE FOR APPRENTICES

to subscribers in England, Ireland, Scotland, and Wales, and the adjacent Islands. We shall award copies of Ince's "Elementary Dispensing Practice" to apprentices who transcribe the direction on a post-card and translate it correctly. The card should be countersigned by the subscriber. Expedition in posting and neatness of handwriting will be taken into account in awarding the prizes. No post-cards will reckon which are received after Wednesday, February 23, except any posted before March 26 by apprentices to subscribers in other parts of the British Empire.

New Books.

Bean, W. *Registration of Firms Bill and other Business Essays*. 8½×5½ Pp. 82. 6d. (Walter Bean, 174 Aldersgate Street, London, E.C.) [This book begins with a lecture on the Registration of Firms Bill, which was delivered before the City of London Tradesmen's Club, and is followed by the text of the Bill and various opinions on the matter. The business essays are on accountancy, banking, bad debts, commencing business, fallacy of "demand creates supply," financing a business, goodwill, stock-taking, social duties, and fire insurance. An interesting book to all business men.]

Leigh, E. C. Austen. *A List of English Clubs in All Parts of the World for 1910*. 4¼×6½. Pp. 196. 3s. 6d. (Spottiswoode & Co., Ltd., New Street Square, London, E.C.) [Contains particulars of 3,180 clubs frequented by the English in all parts of the world. The clubs of London and the United Kingdom are enumerated first, and then follow lists of clubs classified under continents. Particulars are given regarding the Secretaries and subscriptions.]

Reid, J. W. *The Companies (Consolidation) Act, 1908: Reminders for Secretaries, Directors, and Managers of Limited Companies*. Twenty-seven foolscap pages. 2s. 6d. net. (Wilson, 54 Threadneedle Street, London, E.C.) [These useful reminders are printed in large type on one side only of the paper, and show the registers that have to be kept, the returns to be made, and the notices to be given by all companies registered under the Act. The provisions of the Act as to registration of mortgages and charges, directors, commencement of business, prospectuses, allotment of shares, statutory meetings, and some miscellaneous matters.]

Trade Report and Market Review.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are obtained for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at these prices.

42 Cannon Street, London, E.C., February 17.

BUSINESS in most directions continues on restricted lines, with a depressed feeling in certain quarters, especially those dealing with the United States. Among a number of price-alterations, the chief is a sharp advance in Norwegian cod-liver oil as a result of the poor fishing and lessened yield of oil, these conditions having brought speculators into the market. Another notable alteration is a somewhat drastic reduction in codeine and salts, while the undertone in morphine is easy. Lemon and bergamot oils are more inquired for, and prices in some instances higher. More settled financial conditions are ruling in the Sicilian citrus-products industry, the Italian Government having aided the Camera. Other articles showing a firmer tendency include cream of tartar, oxalic acid, ammonia sulphate, benzols, saffron, and thymol; on the other hand, carnauba wax, copper sulphate, red and white lead, and castor oil are all in buyers' favour. The leading changes are as under:

Higher	Firmer	Easier	Lower
Bergamot oil Cod-liver oil Lemon oil	Ammonia sulphate Balsam Tolu Benzols Cream of tartar Oxalic acid Saffron Thymol	Capsicums Carnauba wax Copper sulphate Lead, white and red Orange oil	Castor oil Codeine and salts

London Markets.

ACID, CAREOLIC, is quoted at $3\frac{3}{4}d.$ per lb. for 39° to $40^{\circ}C.$, and $3\frac{1}{2}d.$ for 34° to $35^{\circ}C.$ for ordinary ice crystals in $2\frac{1}{2}$ cwt. drums in large bulk quantities. B.P. detached crystals ($40^{\circ}C.$) are quoted $5d.$ to $5\frac{1}{4}d.$ per lb., and 1 lb. bottles at proportionately higher rates. Liquid cresylic, 95 per cent., in casks, is $1s.$ to $1s. 2d.$ per gallon. Of late the market has shown signs of a firmer tendency, the present prices being the lowest for the past twenty years.

ACID, OXALIC, is firmer at from $3d.$ to $3\frac{1}{2}d.$ per lb. net, delivered free London.

AGAR-AGAR.—A cable was received from Kobe, dated February 10, stating that about 20 per cent. of the new crop has been destroyed by storms. Spot sellers of No. 1 Kobe strip ask $1s. 11d.$ per lb.

ALOES.—The arrivals include 65 packages Cape from Mossel Bay; also 16 cases Zanzibar skin aloes and 50 kegs of Socotrine.

ANISEED is steady at $25s.$ per cwt. for good Russian, and $37s. 6d.$ for Spanish.

BALSAM TOLU.—Small re-sales ex auction have been made at $10\frac{1}{2}d.$ per lb., and at the close $11d.$ is asked, there being a difficulty in getting offers from New York.

BUCHU.—The s.s. Walmer Castle has brought 48 packages, and the German five packages, but the bulk (49) are in transit for the U.S.A. and the Continent; and the remaining four bales are said to be "ovals." On the spot there is still a seller of round greenish at $2s. 3d.$, and to arrive $1s. 8d.$ c.i.f. is quoted.

CANARY-SEED is quiet but steady at $45s.$ to $46s.$ per quarter for Turkish, clean River Plate, and ordinary Morocco,

$50s.$ for good Morocco, and $55s.$ to $75s.$ for common to fine Spanish.

CARAWAY-SEED is unchanged at $30s.$ to $31s.$ per cwt. for fair Dutch on the spot.

CASCARA SAGRADA.—The sailer *Pegasus* from San Francisco has brought 951 sacks to London; price on the spot remains at $38s.$ net.

CHILLIES.—At auction 131 bags Nyasaland sold at $45s.$ to $46s.$ for fair to good bright, $43s.$ for fair red, and $39s. 6d.$ to $40s.$ for mixed yellow and reddish.

CODEINE.—The makers announce a somewhat drastic reduction in codeine and salts, equivalent to $1s. 2d.$ per oz., the following being the current prices: Pure crystals $11s. 6d.$, pure precip. $11s. 6d.$, hydrochloride $10s. 8d.$, sulphate $10s. 8d.$, and phosphate $10s. 8d.$ per oz. net; 70-oz. contracts for delivery over six months are subject to a reduction of $3d.$, and subject to the falling clause on undelivered balances. The above reduction follows a similar one on the part of the Continental makers.

COPAIBA.—The spot price for unfiltered Maranham is $1s. 11d.$, and Central or South American $1s. 10\frac{1}{2}d.$ per lb.

COPPER SULPHATE has receded about $10s.$ per ton, ordinary Liverpool brands offering at $19l. 5s.$ for prompt delivery, and March-April $19l. 10s.$ to $19l. 12s. 6d.$

CORIANDER-SEED is quoted $8s. 6d.$ to $9s. 6d.$ per cwt. for wormy and common Morocco, and $10s.$ to $10s. 6d.$ for fair to good.

CREAM OF TARTAR is firmer, 98 per cent. powder offering at $73s.$ and 95 per cent. at $71s.$

CUMIN-SEED is steady at $33s.$ to $35s.$ per cwt. for ordinary to good sifted Morocco, and $37s. 6d.$ to $38s. 6d.$ for Malta.

DILL-SEED is offering at $11s. 6d.$ to $12s.$ per cwt. on the spot.

DRAGON'S-BLOOD.—The *Ajax* from Penang has brought 15 packages of reboiled; since the auction further small sales have been made.

FENUGREEK-SEED is nominally worth $10s.$ per cwt. on the spot, but there is very little stock on the market.

GANGBIER.—Cubes are steady with small sales at $38s.$ spot.

GLYCERIN.—Although there has been a slight reduction in crude on the Continent, it is unlikely that prices will be affected on this side, as refiners' output is well sold ahead. The official price for double-distilled s.g. 1.260 remains on the basis of $99l.$ per ton in cases, and $95l.$ in drums, naked in 5-ton lots.

GUINEA GRAINS are offered at $77s.$ per cwt. in several quarters.

GUM ARABIC.—Soudan gums are quiet and unchanged on the spot at from $32s.$ to $34s.$ per cwt., but for shipment new crop is firmer at $28s.$ per cwt. c.i.f. New crop Senegal is arriving very slowly—probably $30s. 6d.$ f.o.b. Bordeaux would be accepted.

HONFY.—The sailer *Pegasus* has brought 765 cases from San Francisco to London, and 100 cases also from San Francisco have arrived in Liverpool. The spot price is $42s. 6d.$ for Californian.

IPECACUANHA remains firm, first-hand holders of Matto Grosso asking $7s. 6d.$, which price was paid for a single bale after the auction last week; $5s. 6d.$ is wanted for Cartagena, but nothing higher than $5s. 3d.$ has been paid. The deliveries so far this month are good, amounting to 27 bales. It is also pointed out that the stocks include 25 bales Cartagena which have been held for a lengthy period.

at much above current rates. Six bales of Cartagena have arrived, and ten more are close at hand; the stock in the drug-warehouse on Saturday last amounted to 119 bales, comprising 35 Matto Grosso, 16 Minas, 75 East Indian, and 53 Cartagena.

JALAP.—We direct special attention to the fact reported by our New York correspondent that recent importations into that market show the high resin yield of from 10 to 20 per cent.

LINSEED maintains recent quotations of 65s. to 70s. per quarter for good to fine clean qualities.

LOBELIA.—Sales have been made at 4d. per lb. net.

MORPHINE.—Although the nominal price of makers is 7s. 10d. for hydrochloride, it would be possible to buy at from 7s. 8d. to 7s. 9d., the lower price being for at least a thousand oz. lots.

MUSK.—Market is almost bare of blue-skin Tonquin pod. The value of Pile 1 is about 65s. and Pile 3 50s. per oz. Good quality of old style is held at 54s. and Pile 3 35s. per oz. China Cabardine is quoted 25s. and Russian 19s. per oz.

OIL, ANISEED, STAR. is unaltered, spot quotations being 4s. 6d. to 4s. 6½d., and 4s. 2d. c.i.f. for arrival.

OIL, BERGAMOT, is dearer, most agents quoting from 17s. to 18s. per lb. c.i.f. As already reported, new crop is both small and late, while the ester-content is unusually low this season, so that prices are likely to be maintained. An advice from Sicily dated February 5 states that local requirements have been less urgent, but still rather important, and the market, though very firm, is less nervous. Holders maintain their previous figures, as the pressing season is almost at an end, and those who want prompt goods have to pay full rates.

OIL, CASSIA, is unaltered. Spot sellers ask 3s. 10d. for 80 to 85 per cent., 3s. 9d. for 75 to 80 per cent., and 3s. 7d. for 70 to 75 per cent.

OIL, CASTOR.—Hull make is 5s. per ton lower, first-pressing for prompt and February-June delivery offering at 26l. 15s. per ton in barrels, delivered free on wharf, London. Belgian make is also lower at 27l. 10s. for firsts, ex-wharf London.

OIL, COD-LIVER.—On the London market a much keener interest has been displayed as the result of the sharp advances in Norway, and the prices quoted show a wide range, as is often the result with this article on a rising market. As there is very little new oil available yet, and the prices asked being prohibitive, attention of buyers has been more concentrated on 1909 oil, which has been sold at up to 80s. to 85s. per barrel c.i.f. for immediate shipment, an advance of fully 6s. to 9s. since last week, while new oil for March-April shipment is quoted up to 95s., but several agents are unable to offer firm owing to the nervous condition of the Norwegian market, from whence continually rising prices have been quoted. At the close 1909 oil is quoted at 93s. and 1910 at 100s. c.i.f. for prompt shipment, these prices being asked by several agents. Whether so considerable an advance is warranted quite early in the fishing season it is difficult to say, but it must be remembered that the present boom is partly the result of Norwegian speculators taking advantage of the poor fishing, and this in turn has stimulated the distributing demand. It must not be forgotten that 1908 and 1909 were bumper years—51,000 barrels and 43,000 barrels respectively, and the inference is that the dealers hope to realise a handsome profit on their somewhat heavy stocks of old oil. Our Bergen correspondent writes on February 14 that the weather during the past week was again unfavourable, and the catch only gave a slight increase in numbers. The total for the whole of Norway is now as follows:

	1908	1909	1910
Catch of cod (millions) ...	2.4	3.5	3.6
Yield of cod-liver oil (barrels)...	2,600	3,250	2,650
Livers for raw oils (hect.)	1,600	2,400	2,400

The market tendency is very firm, and prices have been rising daily. Finest non-congealing 1909 Lofoten oil has realised the equivalent of 79s. per barrel c.i.f. London (see cable for latest quotation, which is fully 85s. c.i.f.) and for 1910 oil a few shillings per barrel more would be obtain-

able, but the arrivals to date have been very small. The exports from Bergen to date amount to 1,300 barrels, against 1,883 barrels at the corresponding date of 1909.

The situation in Norway up to February 12 is summed up as follows:

Lofoten catch ...	500,000	208	444
Whole country ...	3,600,000	2,382	3,074

At the corresponding date of last year the catch for the whole country was 3,400,000, and the yield 3,745 hect. of oil. On February 10 an advice from Aalesund stated that, "owing to stormy weather and scarcity of fish, the catch is still without importance—livers are a good deal smaller and leaner than last season." Under date of February 15, a London firm of agents state that "the price of old and new oil has been continually increasing of late, and our last cable received (February 14) quotes new oil at 90s. per barrel c.i.f. London March-April shipment, and old oil 84s. c.i.f. London prompt or forward shipment, without engagement. [These prices have since been withdrawn.] It would appear that the cycle of fat years has come to a close, and that this year may turn out a lean one, with a corresponding increase in values."

OIL, LEMON.—The increased production (says a Sicilian report) caused by the pressing of many lemons blown from the trees, and the poor financial standing of small producers, caused available supplies to be larger, so that here and there it has been possible to obtain a slight reduction in price from needy sellers. Meanwhile a more active local demand prevailed, supported by regular small orders from consumers; there is, therefore, no substantial change in prices or position of the oil. A further advice, dated February 12, states that as the result of the improved financial conditions of the Camera the market is in a better position, and sellers are so reserved that any attempt to buy large parcels would immediately affect prices. Cables in to-day quote 3s. 3d. per lb. c.i.f. for shipment.

OIL, ORANGE, is in easier tendency, sweet offering at 6s. and bitter at 6s. 1d. per lb. c.i.f.

OIL, PEPPERMINT.—Values remain unchanged at 8s. 6d. for good Wayne County tin oil, and 10s. 9d. for H.G.H.

OIL, SANDALWOOD.—Genuine English drawn from East Indian wood is offered at 10s. 6d. per lb.

OIL, TURPENTINE.—American closes at 42s. on spot, and 42s. 3d. for March-April.

OLIBANUM.—Spot prices are firm for the small stock on offer, the sales including fair drop at 42s. 6d., ordinary at 31s., and siftings at 16s. per cwt.; also good pale drop to arrive at 45s. c.i.f.

OPUM.—At the close, the London market is a shade firmer owing to the receipt of Smyrna cables reporting sales of about 45 cases. Spot holders of Turkey druggists' quote 15s. to 15s. 6d., and Persian at from 16s. 6d. to 17s. 6d. spot according to test, there being nothing doing for arrival. A Smyrna correspondent writes on February 7 that the market remains dull and without business. Several weak holders would probably sell ten cases new extra Karahisar at piastres 141; the market closes weak. Druggists (10 to 11 per cent.) is quoted at the equivalent of 12s. 3d., and current 11s. Another correspondent writes on February 5 that the present anomalous situation paralyzes business. Whereas holders of new crop have easily disposed of their stock, holders of old crop, poor in morphine-content, have not sold any quantity owing to the absence of buyers. The previous rising market did not allow them to regret the reserve of buyers as far as old goods were concerned, but the falling tendency having commenced it is only natural that many of them are now anxious to liquidate. Stocks amount to about 600 cases, of which about one-third are of inferior quality. The arrivals amount to 1,885 cases against 2,009 last year.

A Salonica report dated February 13 states that since last advices of January 24, the sharp crisis of the Bourse in New York and the pessimist interpretation of the Balkan affairs caused by the rumoured mobilisation of Turkish troops imparted a weaker tone to the opium primary markets. The financial events in America pointed to a decline in primary markets, more specially for morphine qualities, and this is the reason why opium for smoking-purposes (finest soft shipping sorts) offered comparatively a greater resistance.

Since February 10 a more confident feeling took place, supported by the opinion that a favourable change cannot but arise in the American financial market, and that the fear of war is removed, owing to the negotiations of the Powers protecting Crete. The primary markets follow now the impulse of their own development, and to-day manifest a confident feeling of the future position. Very important transactions have taken place during the three last days, and higher rates are now ruling.

PODOPHYLLUM-ROOT is offered at 44s. 6d. per cwt. spot, which price has been paid.

QUILLAYA—The *s.s. Bogota*, from various South American ports, has brought about 1,640 packages to Liverpool.

RHUBARB.—Small sales ex auction have been made at 6d. per lb. for small round horny High-dried, with three-quarters pinky fracture and one-quarter grey and dark, being steady.

SANTONIN.—Most buyers appear to have filled their requirements at the time of the recent advance, and there is little new to report at the moment. The official price is from 33s. 6d. to 37s. 6d. per lb. as to quantity; second-hands quoting from 34s. to 35s. for small lots.

SARSAPARILLA.—The arrivals comprise a parcel of 26 bales grey Jamaica (which will be offered next week) also a dozen of native Jamaica.

SHELLAC.—Unaltered, and quiet on the basis of 66s. for fair free TN orange.

THYMOL is firmer at 5s. 9d. per lb. net.

TONKA BEANS.—Angostura are offered at 4s. 9d. to 5s. net, and frosted Para at 3s. 6d. per lb. net.

TURMERIC has been sold at higher rates, up to 19s. 6d. having been paid for fair bright Madras finger. Split Cochín bulbs have been sold at 14s.

VANILLA.—At auction the small supply of 80 tins offered, of which about half sold with keen competition at full to higher rates for firsts, common brown and foxy being also firm.

WAX, CARNAUBA, is easier, the value of waxy grey being about 87s. 6d. spot.

WAX, JAPAN, is very quiet, with small sales at from 42s. 6d. to 43s. spot.

Heavy Chemicals.

The general tone of the heavy-chemical market at all the main centres continues of a steady nature, and there has been a further though only slight improvement in the all-round demand. This improvement seems to have been more especially on home account, and the requirements of dyers, calico-printers, and paper-makers may be referred to as having been heavier. Values, generally speaking, do not call for much special comment, the position being, as for some time past, that they are well maintained and without material fluctuations.

SULPHATE OF AMMONIA has taken a distinctly firmer tone, and there is a good inquiry for prompt delivery, partly owing to new business from abroad and partly to dealers covering their this month's requirements. Present nominal figures: Beekton prompt, 12l. 2s. 6d.; Beekton terms, 11l. 10s. to 11l. 12s. 6d.; London, 11l. 10s. to 11l. 12s. 6d.; Leith, 12l.; Hull, 11l. 13s. 9d. to 11l. 15s.; and Liverpool, 11l. 15s. to 11l. 17s. 6d.

BENZOLS are firmer and are in good demand for prompt delivery, but business in 50 per cent. is checked to some extent by the prices asked; 90 per cent. 6½d. to 7½d., and 50 per cent. 7½d. to 8½d., according to market.

LEAD-PRODUCTS.—A fair trade has been done in this branch since last writing, but prices for white and red lead are a shade easier at 17l. and 16l. per ton Tyne respectively. White acetate of lead, 24l. to 24l. 5s.; brown acetate of lead, 20l. 5s. to 20l. 10s.; nitrate of lead, 25l. 15s. to 26l., all per ton and less 2½ per cent. Glasgow.

ZINC SALTS have only been moving somewhat slowly, but prices are maintained. Zinc-sulphate crystals, 6l. 15s. to 7l. per ton, and zinc-chloride solution, 100° Tw., 6l. to 6l. 5s. per ton.

BICHROMATES OF POTASH AND SODA are in fair average demand at late rates. Bichromate of potash, English and Scotch deliveries, 3½d. per lb., less 5 per cent., and export, 3½d. per lb. net f.o.b. Glasgow. Bichromate of soda, English and Scotch deliveries, 3d. per lb., less 5 per cent., and export, 2½d. per lb. net f.o.b. Glasgow.

MAGNESIUM SALTS rule steady at unaltered values. Sulphate, 62s. 6d. to 65s. per ton; chloride, 67s. 6d. to 70s. per ton; and carbonate, 30s. to 35s. per cwt.

RECOVERED SULPHUR.—A good all-round demand is being experienced, and prices are steady on the basis of 5l. to 5l. 5s. per ton in 2-cwt. bags.

Manchester Chemical-market.

February 15.

There is a rather quiet feeling in heavy chemicals, and as the cotton-trade in Lancashire continues depressed, there is, in face of dear raw cotton, little prospect of improvement. Production, however, is being carefully regulated to demand, and values are therefore well maintained. Sulphate of copper is a shade easier, though makers do not care to commit themselves far forward, in view of the uncertainty attending the metal. Acetate of lime maintains full rates. Sulphuric and muriatic acids are in fairly good demand, but acetic is offering somewhat freely at about late rates. White powdered arsenic is steady at 12l. 7s. 6d. to 12l. 10s. per ton Manchester. Cream of tartar and acids rather quiet, although a slight improvement is to be noted in oxalic. Zinc salts are slow. Coal-tar products quiet. Sulphate of ammonia is easier at 11l. 6s. 3d. to 11l. 7s. 6d. per ton on rails Manchester.

American Drug-market.

New York, February 8.

There are few changes in the conditions governing the New York drug-market. The improvement formerly noted is well maintained, although jobbing sales constitute the main part of the movement. Higher prices are noted for ipecac., guarana, bismuth, and iodides, lower for opium and jalap.

ALOES.—Curacao in cases is fairly active at 7c. to 7½c., as formerly; 8½c. is quoted for Cape in jobbing lots, with ½c. less asked for round parcels. Other varieties have not altered.

ASAFTIDA.—The scarcity has become more pronounced during the interval, and, owing to depletion of stocks, holders have advanced prices 10c. to 65c., subject to their being allowed entry; goods "to arrive" are quoted at 50c. per lb.

CASCARA SAGRADA is unaltered on spot, 7c. ruling for jobbing lots. Several car-loads recently arrived from the coast, but the terms did not transpire.

BISMUTH SALTS have advanced on an average 25c. per lb., subnitrate being now quoted at \$1.65. No particular reason for the change is assigned, except lack of competition in prices.

COPAIBA.—C. and S. American grades are slightly easier at 42½c. to 50c., part of a recent arrival of 55 cases of Maracaibo being offered at the inside figure. Para is obtainable at 50c. to 55c., according to quality.

CANADA BALSAM is slow at the recent decline to \$5.25.

GUARANA is again higher by 50c. at \$3, owing to unusual demand and concentration of supplies.

GRINDELIA ROBUSTA is in advancing tendency at 5½c., stocks in this market being rather light, and demand fairly active.

HYDRASTIS continues firm at \$2 to \$2.10, under a good demand for manufacturing lots. Stocks of U.S.P. grade are low in both spot and country markets, and a higher range of prices is expected.

IPECAC. is in short supply, and during the interval Cartagena has advanced 5c. to \$1.05 to \$1.10, the lower figure being available in one quarter only. Rio is scarcely obtainable at present, and for arrival up to \$1.85 is asked.

IODINE preparations all show a higher range of values, resublimed being 10c. higher at \$2.50, and other products accordingly. It is not suggested that the price of crude has been advanced, the new scale of prices being simply an upward revision.

OPUM has declined 10c. to \$5.65 for ease lots, owing to easier advices from primary sources and backward demand on spot.

PEPPERMINT OIL is in unchanged position at \$2 for tins and \$2.30 for cases.

JALAP has declined to 30c., owing to freer supplies in all markets. Some of the recent importations are of a quality seldom seen in this market, the high resin yield of 10 per cent. to 20 per cent. being obtainable.

Citric-acid Materials.

Mr. A. Ravaioli informs us that he has been appointed Commissioner of the Italian Government to the Camera Agrumaria, by Royal Decree of January 20. He is authorised to inform us and all buyers of citrate of lime and concentrated lemon-juice that it is ready to furnish the Camera Agrumaria with all the financial help required, in order to regulate prices of citrus by-products. The financial support of the Government will not be bound by the length of Mr. Ravaioli's mission, but it will be given at any time when needed. The citrus-fruit industry is of such an importance to the welfare of Sicily and Calabria (so much stricken by calamity) that the Government feels that it is its duty to support the Camera. Mr. Ravaioli has already given orders that the advances of money by the Camera on goods produced during the season 1909-1910 shall be made immediately, and continued during the whole of the season. It will be the task of the Camera

to keep the selling-prices of citrate and juice within such bounds which will conciliate the interests of producers with those of manufacturers, which are certainly no less worthy of consideration. These prices, once fixed, will not be lowered during the whole season, and in any case will not be altered in a way detrimental to the interests of the buyers. The financial position of the existing stock being settled, it is hoped to be able to put the market on a firm footing. Manufacturers will certainly prefer to buy their raw material at a just and regulated price, which allows them to be free of anxiety about reductions, differences, and continual fluctuations. The lemon-crop this year will be one-third short, and a similar falling-off is expected in the production of citrate. The following are the quotations for the current season:

CITRATE OF LIME.—157 lire per 100 kilos., basis 64 per cent. citric acid, for merchandise stored at the general warehouses of Palermo and Catania, usual terms, prompt delivery within the month of February. For deliveries within the following months the price will be raised 1 lire per 100 kilos., month by month after February, even if the respective month has only just commenced. Should the price be lowered, the Camera will allow buyers a falling-clause on undelivered balances.

CONCENTRATED LEMON-JUICE.—Prices will be left to the discretion of the Royal Commissioner, and will be fixed according to the importance of the orders.

The selling-prices of 1909-1910 season's products will be fixed later, but they will only slightly vary from those now in force.

Cablegrams.

BERGEN, February 16.—Continued stormy weather is preventing cod-fishing, and the market is still rising, to-day's quotation for finest Lofoten non-congealable oil being 85s. 6d. per barrel c.i.f.

SMYRNA, February 17.—The sales of opium since February 10 amount to 45 cases at from 13s. 9d. to 14s. per lb. for usual druggists' grades, being lower. The market is now firm in consequence of small stock on hand and good inquiry.

NEW YORK, February 17.—Business in drugs is fair. Opium is lower by 20c. at \$6.45 per lb. for druggists' by single cases. Cascara sagrada is $\frac{1}{2}$ c. firmer at 7 $\frac{1}{2}$ c. per lb., owing to an advance on the Pacific Coast. Hydrastis (golden seal) is firm at \$2 per lb. Peppermint oil in tins remains steady at \$2. Copaiba balsam is easier at 42c. for Central and South American. Cartagena ipecacuanha is firm at \$1.15 per lb., and asafetida is scarce at 65c.

AMSTERDAM, February 17. At the auction of cinchona held here to-day 8,823 packages were offered, of which 7,710 packages sold at an average unit of 3.14c., against 3.10c. per half kilo paid at the auction on January 13. The following were the approximate quantities of quinine purchased by the principal buyers:—(1) The English and American factories, 8,907 kilos; (2) the Brunswick factory, 3,856 kilos; (3) the Mannheim factory, 5,255 kilos; (4) the Amsterdam factory, 2,345 kilos; (5) the Frankfurt and Stuttgart factories, 4,976 kilos; (6) the Maarsse factory, 3,874 kilos; (7) various buyers, 10,599 kilos. The lowest price paid for manufacturing bark was 7 $\frac{1}{2}$ c., and the highest 32 $\frac{1}{2}$ c., while for druggists' bark from 7 $\frac{1}{2}$ c. to 38c. was paid.

London Chamber of Commerce.

A MEETING of the Chemical Trade Section of the London Chamber of Commerce was held at the offices, Oxford Court, Cannon Street, on February 11, Mr. John C. Umney presiding. Those present included Messrs. W. Dunlop (United Alkali Co., Ltd.), J. Griffiths (Price's Patent Candle Co., Ltd.), W. H. Parker (Burroughs Wellcome & Co.), A. A. Catchpole (E. Catchpole & Sons), T. Elborough (Lawes' Chemical Manure Co., Ltd.), David Howard (Howards & Sons, Ltd.), T. Bennett (J. B. Lawes & Co., Ltd.), S. Thittle (Curtiss & Harvey, Ltd.), J. Kershaw (F. W. Berk & Co., Ltd.), T. S. Boulton (Burt. Boulton & Haywood, Ltd.), Martin Taylor (Brunner, Mond & Co., Ltd.), Henry W. Crow (T. Crow & Sons).

PORT RATES.

The principal item on the agenda was to consider the draft provisional order embodying the schedule of maximum port rates on goods, and to formulate on behalf of the

chemical and drug trades any objections or representations. These objections have to be submitted in writing to the Board of Trade and a copy sent to the Port Authority by not later than Friday, February 18. The Chairman said he had considered the schedule of maximum port rates as amended, but he regretted to say that they were of practically no use to them, and the rates as they stood were quite prohibitive. He instanced some of the more glaring defects to which attention had already been called, and alluded to the haphazard manner in which the articles had been thrown together quite irrespective of value; these included chloride of magnesium, Epsom salts, zinc salts, and spices, in which practically no reduction had been made, and which were rated at an exceedingly high percentage of their value. He proposed that the rates be not accepted in their present form, and submitted that the members once again protest that the classification should be on an *ad-valorem* basis on the scale suggested in the letter sent to the Port Authority last November (see *C. & D.*, December 4, p. 870). During the discussion which followed, Mr. David Howard also emphasised the fact that nothing but an *ad-valorem* basis would be satisfactory. One of the most flagrant instances, he said, was Epsom salts, which was placed as an unrated chemical at 5s. per ton, or over 25 per cent. of its value. This section of unrated chemicals constituted a great danger, inasmuch as there is swept into it chemicals at all prices to be rated at one rate. The consequence is that it is a very high rate for common and exceedingly low-priced chemicals, and unless they could get them into the schedule they would remain in the general rating. Regarding the question of general principle, such as rebates on re-exports, etc., he believed the counsel of the Chamber is to be instructed, but all complaints must be sent in to the Board of Trade by February 18 and would have to be urged separately. These can be sent in by individuals or to the committee of the Chemical Trade Section of the Chamber. He strongly urged them to press for *ad-valorem* rates, and to enumerate the most flagrant defects in the schedule. In the subsequent discussion it was pointed out that at a meeting of the London Waterside Manufacturers' Association a series of resolutions (referred to on p. 291) had been adopted. These were read by the Chairman and met with the approval of the meeting, and it was ultimately decided to press for *ad-valorem* rates in view of the impossibility of framing a schedule of values owing to the wide range and the extreme difficulty of collection. Failing that, the schedule should be made absolutely complete. It was also decided to support the Waterside Manufacturers' resolution for "total exemption" on goods sent coastwise or exported. The Chairman stated that the rates originally proposed and the provisional ones had appeared in *THE CHEMIST AND DRUGGIST*, and he asked that suggestions might be sent in to the committee. Mr. Bennett and he would be in attendance on Tuesday at the Chamber to put forward actual prices of the items in dispute, so that they could go forward in letter form to the Board of Trade.

RAILWAY RATES.

The Chairman stated that the deputation from the chemical and drug trades put their case for lower rates before the managers of the railway companies at the Railway Clearing-house on Thursday, February 10. The deputation had a very courteous reception and the managers heard all that they had to say. As the result of the discussion the managers asked for figures showing the depreciation which has taken place in chemicals and drugs during the past twenty years, amounting in some instances to 50 per cent. These particulars are to be forwarded. The deputation consisted of Sir Edward Evans, Messrs. C. A. Hill, B. Hirst, D. Lloyd Howard, John C. Umney, and Chas. Musgrave (Secretary).

NEURALGIC PAINS may often be relieved by the application of chloroform liniment to which has been added menthol 60 grains to the ounce.—*Hospital*.

IT IS ANNOUNCED that the New York branch of Parke, Davis & Co. have decided to discontinue the policy of selling crude drugs on the "open" market, so that in future importations will be limited to their own requirements for manufacturing purposes only, as these operations quite enable them to obtain every market advantage in purchases.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they are not recorded. Queries by subscribers on dispensing, legal, and miscellaneous subjects pertaining to pharmacy and its allied trades are replied to in these columns, if they are of general interest. Letters submitted to the Editor for publication (if suitable) should be written on one side of the paper only. Their publication in the "C. & D." does not imply our agreement with the opinions of the writers.

Essential Oils of the B.P.

SIR,—We ourselves personally should be highly gratified if it could be possible to devise and adopt in the proposed new British Pharmacopœia monographs that would make it easy for users of English essential oils to discover when such oils are adulterated with foreign oils. English essential oils were adulterated before the 1898 B.P. was published, but now to a much larger extent. We presume it will continue, however strict the factors are made in the new B.P. We are in a position to know that the great bulk of the English grown and distilled essential oils are largely adulterated with cheaper foreign oils before they reach the users. It is probably impossible to adopt any factors which will prevent this class of adulteration. We think it is generally held by those qualified to judge that the ingenuity of the chemists has done much of late years which conduces to the adulteration of essential oils rather than prevents same. We have looked through the proposed monographs of Messrs. Hill and Umney as far as this affects our productions, but we cannot see in them any factors that will prevent this class of adulteration.

Yours truly,

Mitcham, February 14.

J. & G. MILLER.

SIR,—There can be few subjects included in the British Pharmacopœia in which our knowledge has advanced more rapidly since the issue of the 1898 edition, or in which recent research has shown need for more drastic alteration and amendment in the official monographs, than in that of essential oils, and it is therefore gratifying to find the matter dealt with in so thorough a manner by Messrs. Hill and Umney in their paper before the Pharmaceutical Society last week. The substitution of quantitative determinations of eugenol in clove and pimento oils, and cineol in cajuput and eucalyptus oils for the present crude tests, and the further application of quantitative methods to thyme, lavender, peppermint, sandalwood, lemon, and a number of other oils is very satisfactory, and with the majority of the standards given in the suggested monographs I am in cordial agreement. I should like, however, to draw attention to a few details in which, in my judgment, they might be improved:

1. *Oleum Carvi*.—Since the carvone may be readily estimated by extraction with neutral sulphite of soda solution, this determination might well replace the suggested distillation process.

2. *Oleum Caryophylli*.—A minimum of 80 per cent. of eugenol is far too low. A more reasonable figure would be 85 per cent.

3. *Oleum Cinnamomi*.—A maximum limit for phenols, as determined by absorption with 5-per-cent. caustic-potash solution, might be given.

4. *Oleum Coriandri*.—A standard might be fixed for percentage of alcohols, as determined by acetylation.

5. *Oleum Lavandule*.—The minimum limit of 30 per cent. of esters, calculated as linalyl acetate, for foreign oils is much too high. Some of the very finest foreign oils I have ever examined contained only 23 to 25 per cent. of esters.

6. *Oleum Rosæ*.—I object most strongly to a minimum sp. gr. $30^{\circ}/15^{\circ}$ of 0.855, as in some seasons many of the best oils do not reach this figure, but lie between 0.850 and 0.854. The minimum I should recommend is 0.850.

7. *Oleum Thymæ*.—For estimation of phenols in thyme oils, I have found a 10-per-cent. solution of caustic potash give the best results, the separation of unabsorbed oil being cleaner.

In the saponification process, I note it is recommended to boil for one hour. It is rather open to question, I think, whether in most cases thirty minutes' boiling is not sufficient to ensure complete saponification of the esters. As to the acetylation process, I would suggest that the acetylated oil should be washed with brine instead of with water, as recommended by Schimmel some years ago; and further, as was mentioned in the discussion after the paper, the process requires the introduction of a preliminary saponification in the case of oils containing esters.

Yours truly,

WM. H. SIMMONS.

Stoke Newington, N., February 15.

Liquids by Post.

SIR,—Chemists as a body send a very large number of bottles containing liquids through the post, and probably 90 to 95 per cent. are sent in one or another form of corrugated paper. As the postal regulations refuse liability in case of breakage, could not some combined action be taken to obtain, at least, a hearing by the Postmaster-General of our views on the subject of compensation? The number of breakages is exceedingly small, and they are only brought about by very bad treatment on the part of some official. I have found the local officials generally express themselves satisfied with corrugated paper as a packing, and all other carrying companies are liable for damage.

Yours faithfully,

Southsea, February 10. T. O. BARLOW.

Use of Common Salt.

SIR,—There have appeared in several of your recent issues a number of letters as to the use of salt taken with food. And, in addition, in the issue of February 5 you published a paper on the subject, read by Dr. Ackerley to the Balneological and Pharmacological Section of the Royal Society of Medicine. In your issue of February 12 I expected to see some reply from someone more capable than I, but I find none. With your permission, therefore, I would like to say a word on the subject, because I think it is of the very greatest importance to mankind in general to understand rightly the necessity of salt. To allow such a paper as Dr. Ackerley's to go unchallenged will do a great amount of harm. The doctor says that "many nations never use it." He does not say what nations, or where they are to be found—we have not yet been to Mars. If a nation be found at the present time that never eats salt, it will also be found that its people eat flesh raw and never cook their food. Of course, if one lives on raw flesh and milk, added salt is not so necessary. The doctor says also, "herbivorous animals do not require salt." In wet seasons, particularly when some of the salts are washed out of the food, as it may be from hay and clover, a lump of rock salt put into the manger is necessary. The doctor admits that there is in the human body about 11 oz. of salt, but adds, "the salt found in our food is sufficient." He further states that "added salt impairs digestion," and "he believes that there is overwhelming evidence that it is essentially a poison," that "large salt-eaters are disturbed at night," and "it gives rise to œdema." To prove that the whole of these assertions are full of errors would certainly not be a difficult task. He goes on to say that "in children a craving for salt does not indicate the physiological need of it." What, then, does it indicate? The salt in the sea is there for the same reason that it is in the blood—viz., to prevent putrefaction. If the blood be deficient of its salts when it goes its circuit through the vessels to nourish and strengthen the various parts of the body, is there any wonder that disease should be the result? Continued deficiency of salt can only mean nervousness, emaciation, consumption, tumours, cancer, diseases of the liver and kidneys, etc. Salt can only be described as a poison in the same sense as coal or water may be so designated. Why has the beneficent Creator given us such a superabundance of salt all over the world—a greater quantity by far than all minerals and their salts, including coal, put together? Homer called salt divine. Plato named it a substance dear to the gods. In many countries it has been given for wages (see Esdras iv. 14); from salt the word "salary" is derived. The salt-mines of India were worked years before Alexander the Great. Any amount of salt may be obtained from the sea, but the more you go

inland the more salt you find in the earth. The most ancient trade-routes in every country were first made for traffic in salt. The German salt-mines are numerous, and brine-springs are scattered all over the country. The same may be said of Spain, France, and all countries. Cheshire alone gives some 2,000,000 tons a year. As far as life is concerned nothing can supply the place of salt, and in this respect it is unlike every other substance under the sun.

Yours truly,

GEO. P. POND.

68 Fleet Street, E.C., February 14.

Subscribers' Symposium.

(Information Solicited or Supplied.)

Prescribing by Advertisement.

In last week's issue of the *C. & D.* a correspondent writes re *Lavona* de Composé Hair-wash. Since the paragraph appeared in our local papers we have dispensed a large number. We turn it out in a 4-oz. bottle with a sprinkler, and charge 3s. 6d., and have no trouble in getting this price.—*Prior & Co. (Londonberry).*

This new method of retailing patent medicines is a great nuisance to the chemist. There are now a lot of them. The advertisers say they are on the P.A.T.A., but that is no protection of the price, as the other ingredients can be cut to nothing. Customers come in with the newspaper prescription and expect to get it for about 1s., as the advertisement says: "To be obtained at a nominal price." When they are told that the price of the *Lavona* mixture is 2s. 6d. without perfume, or 3s. 3d. with perfume (these are Boots' prices), they either go without or take something at a lower price. It is much more satisfactory to the chemist to sell a patent medicine ready made—even if the price is cut—than to sell something that has to be made up after the style of these new, chiefly American, preparations.—*B. & S. (112/10.)*

Re "Pharmakos" remarks on the "*Lavona*" prescription, this kind of advertising is becoming very frequent, and is apparently paying better than if advertised as "So-and-So's" this or that. It would be a good thing if pharmacists discussed these "prescriptions" at an early stage of their appearance, and fixed a definite charge, allowing themselves a good margin of profit. I wonder if any chemist had an experience like mine regarding a free bottle of *Meta's* hair- tonic (got by returning coupons off *Lavona*). Enter woman with cutting from paper. "Hair-prescription to be mixed, please." "Yes, we have this, the cost is 2s. 9d." (our charge). "Very well; make it up, please." "No delay, ma'am, we have it all ready for you now, correctly made up by the proprietors." Free bottle produced, and promptly refused. That couldn't possibly be it; it must be mixed up. We offered to "mix it up" if she would wait a few minutes. No use; all confidence in us lost, likewise a sale. *Ferb. sup.—Flowers of Oicin. (75/20.)*

Up to the present I have not been guilty of prostituting my calling by dispensing these advertisement prescriptions in which unknown compounds are so ingeniously sandwiched in between ordinary drugs. By this time I must have refused some hundreds of orders, and accordingly, in my efforts to uphold the prestige of pharmacy, I have lost a considerable sum of money. This kind of trading appears to be growing, and as the matter reduces itself, therefore, to one of bread-and-butter, I suppose I shall have to climb down unless something is done to put a stop to the practice by the united efforts of retailers. I trust the present discussion will prove the first step in that direction. Why cannot the owners of such compounds advertise them in a straightforward way as a proprietary—say, for instance, like "*Antipon*" or "*Harleno*"—instead of resorting to prescriptions in a newspaper article. To my mind, the system in question has also an aspect in law. Is it legal for a pharmacist to compound an ailment prescription which he knows has not been written by a duly qualified person? Also, must not all prescriptions be signed by the prescriber, with his qualifications?—*Tab. Lloyd. (75/38.)*

[There is, of course, no law which requires that prescriptions for ailments should be written by "duly qualified persons," whatever that may mean. When the 1868 Act was going through Parliament, it was proposed that the Section 17 exemption as to medicines dispensed should apply to the prescriptions of medical practitioners, but Mr. Sandford, then President of the Pharmaceutical Society, resisted that proposal in order to conserve the right of chemists to dispense under the same condition any recipe presented to them or devised by themselves.—*EDITOR C. & D.*]

Newspaper Prescribing.

Mr. H. T. Escritt, 8 Acre Lane, Brixton, sends a cutting from a Birmingham newspaper bearing the following prescription:

Bismuth carbonate ...	...	1 drachm
Soda bicarbonate ...	...	40 grains
Acid. hydrocyan. dil. ...	...	16 drachms
Tinct. cardam. eo. ...	...	2 drachms
Mucilage of acacia ...	...	q.s.
Chloroform-water to ...	...	8 oz.

Mix. Two tablespoonsful to be taken three times a day after food.

This prescription was presented to Mr. Escritt on Tuesday. The cutting also bore the line:

"Whenever domestic measures fail to relieve."

"Prussic acid in the above dose certainly will," adds Mr. Escritt. [*C. & D.* subscribers who get the prescription to dispense will note the blunder, and warn customers about it.—*EDITOR.*]

Medical Inspection of School-children.

It is difficult to understand what Mr. A. S. Weir requires, but I can tell him how that portion of the Education Act of 1907 relating to the medical inspection of school-children is worked in a large urban district where we have about 5,500 children attending our public elementary schools. The medical officer of health is appointed school medical officer, with a school nurse as assistant. The children are examined four times during their school period—on entrance at five, at seven, at ten years of age, and before leaving at fourteen. Each child has a card allotted to him or her, on which particulars as to the weight, height, physical condition, and so on are entered by the medical officer at each of the four examinations. If the pupil leaves one school to go to another under the same Authority, the card accompanies him. Notice is sent to the parent when their children are to be examined inviting their presence, and the nurse is always present with the doctor. I consider that the Act is of great value; it has already led to more and closer maternal preparation and observation. We can at once discover cases of pediculi and ringworm, the medical man giving advice thereon if desired. My committee have so far refrained from setting up clinics or providing speculaes or tooth-brushes—we simply advise the parent as to the state of the child, and refer them to their own medical man; or, if too poor, suggest remedies to be purchased from a chemist. Medical inspection is in its infancy to-day, of course, and local authorities have as yet not been able to do more than organise this work and carry out, say, an inspection of the children entering and leaving school; but when it has had a full trial it must materially add to our knowledge of child-life. It will be the means of checking a good many of the ailments which shorten a child's school-time, and so make the child physically better able to hold its own when its school-days are over. I should be glad to send Mr. Weir specimens of the cards, etc., we use, if he wishes.—*F. W. Bates (Brook's Bar, Manchester.)*

Legal Queries.

Consult the legal information in "*The Chemists' and Druggists' Diary*," 1910 before writing about your difficulty.

W. B. N. (74/9).—There is no reference on your tonic-label to any human ailment, nor any claim to exclusive right in the preparation, so that it is not liable to medicine-stamp duty.

B. M. D. (76/42).—The tonic-label makes the medicine liable to medicine-stamp duty, as its title is a name in the possessive case, and until the contrary is proved by the user, the Board of Customs and Excise hold that use of a proper name in this manner is a claim to proprietary right.

Sodii Bic. (77/28).—See *C. & D. Diary*, p. 463, for information in regard to the application of the Shop Hours Act, 1904, to chemists. The authorities cannot compel you to close your shop-door at the closing-hour adopted generally in your district; the offence consists in keeping open for the sale of anything other than medicines and surgical appliances.

Leeds (75/44) asks: "When a business changes hands, what is the position of an assistant who has not been given notice by his employer—in the case in point, two weeks'? Can he legally claim two weeks' salary, or is he bound to serve the fortnight in the employ of the purchaser?" [The assistant's agreement is with the person who employed him—viz., the seller of the business. He is not bound to serve the purchaser of the business, and he is entitled to obtain from his employer a month's notice, unless there has been a special agreement as to a shorter period.]

Miscellaneous Inquiries.

As we do not in this section repeat information given during the past twelve months, inquirers should refer to the copies mentioned. Back numbers for the past five years can generally be obtained from our office at the published prices.

L. H. L. (61/51).—Mr. Dudley Wright's book on "The Treatment of Haemorrhoids and Rectal Prolapse by means of Interstitial Injections" is published at 1s. It can be had from medical booksellers, such as Lewis's or Kimpton's.

T. A. J. (70/42).—REMOVING TATTOO-MARKS.—References to the various methods of doing this were given in the *C. & D.*, December 4, 1909, p. 880. If you have not the numbers there referred to, we will repeat one or two of the processes.

T. C. H. (174/8).—PASTE SHEEP-DIPS.—The following is the simplest recipe for this form of sheep-dip:

1. Size	...	...	...	14 lb.
Soft soap	...	...	...	14 lb.
Crude carbolic acid	...	...	...	7 lb.
Water	...	...	...	q.s.

The size and soap are mixed and the carbolic acid added, with sufficient water to make of proper consistence. For use, the above is made up with water to 50 gals. The addition of sulphur can be made as you suggest, but we gather that your chief difficulty is the proportion of the solidifying ingredients. Another kind of paste-dip is produced by making a soap in the course of manufacture by combining fats and resin with caustic alkali, as in the following examples:

2. Caustic-soda solution (sp. gr. 1.34)	5 gals.
Tallow	14 lb.
Creosote or dead oil (20 per cent. carbolic acid)	10 gals.
Carbolic acid	5 gals.
Soft soap	14 lb.

The alkali, creosote, carbolic acid, and tallow are boiled together, the soft soap being added towards the end of the saponification process, and sufficient water to make of the proper consistence.

3. Caustic-soda solution (sp. gr. 1.34)	5 gals.
Cocoonut oil	14 lb.
Common resin	56 lb.
Stearine fat or Yorkshire wool-grease	42 lb.
Creosote	10 gals.

In this case also the soap is formed by boiling the ingredients together until saponification takes place.

The arsenical-dip formula which you submit is the usual one, but it may be coloured by replacing part of the arsenious acid by yellow sulphide.

W. F. G. (68/59).—"Pharmaceutical Formulas" (10s., office of *C. & D.*) contains the most complete collection of recipes for toilet-preparations. We know of nothing of the same character.

Rus (69/52).—FOOT-ROT TREATMENT.—Copper sulphate is the remedy *par excellence*, as you will see by referring to Leaflet 154 issued (gratis and post-free) by the Board of Agriculture, 4 Whitehall Place, London, S.W. We will, however, keep in mind your suggestion that formalin might be beneficial.

G. A. (46/59).—BRONZE-POWDER is prepared from an alloy of copper, tin, zinc, and antimony; the proportions vary according to the colour required. The metals are melted together and cast into rods $\frac{1}{2}$ in. in diameter and 3 ft. long. These rods are rolled until about 2 in. wide, and then cut into suitable lengths for handling. The pieces are beaten very thin, and are then treated in a sulphuric-acid bath to remove rust and dirt. After drying, the sheets are again hammered until the limit of thinness is reached, and are then cut up by means of shears into "clippings," which are beaten to powder in stamp-mills. The powder is sifted and graded. Workers with bronze-powder must take precautions against metallic poisoning, similar to those observed in potteries where lead is used. Great personal cleanliness, the wearing of respirators in dusty processes, and the use of exhaust-fans to deflect the dust away from the worker are among the precautions adopted. The factory inspectors have wide powers in compelling the observance of precautions necessary to prevent injury to the workers' health.

H. B. D. (51/14).—SEA-WATER keeps for any length of time. It is used in France for normal saline solution, the water being collected in the open sea and preserved in ampoules.

G. L. W. (61/32).—We are not able to supply the particulars you require of the methods used for increasing the carbolic coefficient of soluble phenol disinfectants.

J. B. W. (76/66).—ESTIMATION OF PARAFFIN IN COLZA OIL.—The method of doing this is the same as that given in the

C. & D., February 12, p. 270, for detecting hydrocarbons in olive oil.

B. & C. (143/31).—CASTOR OIL AND WATER separate on standing, especially if heated the while. You do not indicate whether you have some special problem in view. If a perfectly dry oil is needed, this could probably be ensured by the use of fused calcium chloride.

Puzzled (69/38).—VEAL SUET is softer than mutton or beef suet, and on that account occurs as an ingredient in cucumber-pomade. A mixture of beef-marrow and beef-suet might be employed as a substitute.

Snail (49/15).—(1) CARBOLISED WHEAT-DRESSING:

Copper sulphate,	...	...	...	...	of each 7 lb.
Iron sulphate,	...	...	...	...	...
Arsenic	...	...	...	...	...
Crude carbolic acid	...	...	...	...	8 oz.

Mix. One pound of this mixture is dissolved in a gallon of water and used for each sack (4 bushels) of grain. The grain is heaped on a clean wooden floor and watered with this solution, turned over several times by means of a wooden shovel, and then spread out in a thin layer till dry enough to sow.

(2) CALICO-PRINTING.—We are not acquainted with the process of improving the fastness of colours which you outline, but if a new one, it probably involves the use of a proprietary ingredient. One method we notice calls for Sandoz's "Mordant B," which consists essentially of tin phosphate, and another involves the use of the recently introduced solid hydrosulphites.

C. B. (34/24).—(1) CORDIAL FELON DRINK FOR CATTLE:

Powdered gentian,	...
Powdered anise,	...
Powdered caraway,	...
Powdered cumin,	...
Powdered mustard, of each	... 1 oz.
Powdered turmeric,	...
Ammonium carbonate, of each	... $\frac{1}{2}$ oz.

Mix. This is one dose, and is mixed with a quart of warm ale.

(2) APERIENT FELON DRINK.—As aperients are indicated in the early stages of this disease, some chemists sell a drench combining the cordial and aperient qualities, such as the following:

Epsom salts	...	...	12 oz.
Cream of tartar,	...	...	...
Powdered ginger,	...	...	...
Powdered cumin,	...	...	...
Powdered turmeric	...	a.a.	1 oz.
Caraway oil	...	...	30 min.

This is administered mixed with from 2 to 3 pints of warm ale. If required to be repeated, the stimulating drink, the recipe for which is given above, is indicated. Refer also to *C. & D.*, August 28, 1909, p. 390, where the formula for a local application is given. (3) These drinks are put up in moulded packets by means of the usual block and mould, which is obtainable in various sizes at druggists' sundriesmen. (4) CARBOLISED WHEAT-DRESSING.—See reply to "Snail."

* * A number of letters, dispensing notes, and replies to correspondents are unavoidably held over.

Our Retrospect.

(From the "*C. & D.*," February 15, 1860.)

Trade Report.

Since our last issue mercantile prospects have undergone very important changes. The rate of discount, which then stood at $2\frac{1}{2}$, has been advanced to 4 per cent., a most unusual rise to take place in so short a period; still, the cause—the exportation of specie to meet the demand in India—being well known, its effects were anticipated, and caused little derangement in monetary circles. The letter of Louis Napoleon shadowing forth great changes in the direction of reciprocity and free trade, followed as it has been by Mr. Gladstone's Budget—the most comprehensive since Sir Robert Peel's—has greatly influenced transactions. So important a measure as that proposed by the Chancellor of the Exchequer will, of course, give rise to differences of opinion as to its merit; none will, however, deny the boldness with which he has taken the question in hand. Its principal characteristic may be described as the remission of four millions of indirect taxation, by the abolition or reduction of duties on nearly four hundred articles. A few particulars of more immediate interest to our constituents of the treaty of commerce negotiated by Richard Cobden are added below; meanwhile, we desire to express our humble meed of praise of what we consider to be (under all the circumstances) an admirable Budget.

PEARS

SOAPMAKERS

By Royal Warrants to
their Majesties

The



TO H.M. THE KING.

KING

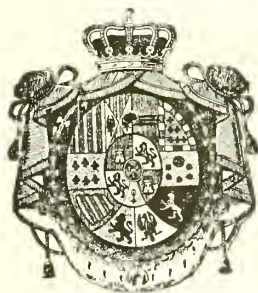
and the

QUEEN



TO H.M. THE QUEEN.

And also



to their Majesties

The

KING and QUEEN of SPAIN.

AWARDED 22 PRIZE MEDALS.

HOLDERS OF THE

ONLY GRAND PRIX and the ONLY GOLD MEDAL

EVER AWARDED SOLELY

For TOILET SOAP.

HUBBUCK'S PURE OXIDE OF ZINC.

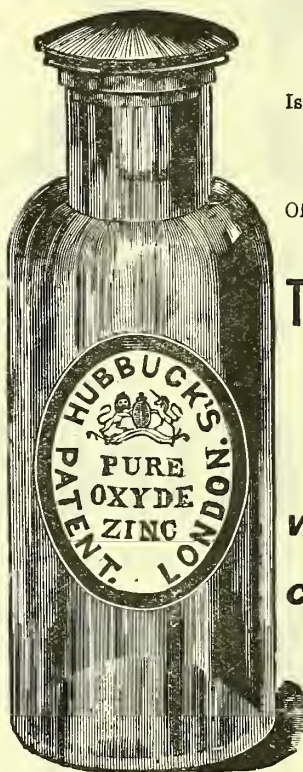
Sold by the following Wholesale Druggists
in Boxes of 7 lbs. and 14 lbs., stamped by
the Manufacturers; also in 1-lb. Boxes and
1-lb. Glass Bottles:—

Allen & Hanbury's (Lim.).
Baiss Bros. & Stevenson
(Lim.)
Barron, Harveys & Co.
Bell, Jno., & Co.
Bleasdale (Lim.) [(Lim.)].
Boot's Pure Drug Co.
Burgoyne, Burbidges &
Clay, Dod & Co. [Co].
Cockburn & Co. (Lim.).
Corbyn, Stacey & Co.
Dakin Brothers.
Davey Hill & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher &
Webb (Lim.).
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan.
Harkness, Beaumont &
Co.
Hatrack, W. & R., & Co.
Hearon, Squire & Francis.

Hirst, Brooke & Hirst.
Hodgkinson, Prestons &
King.
Hodgkinsons, Clarke &
Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of Edin-
boro').
Ismay, John, & Sons.
Lofthouse & Saltmer.
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raines, Clark & Co.
Raines & Co.
Rankin & Borland.
Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R. & Co.
Taylor, James.
Thompson, John (Lim.).
Willows, Francis, Butler
& Thompson.
Woolley, Jas., Sons & Co.
(Lim.).
Wright, Layman & Um-
ney (Lim.).
Wyleys (Lim.).

Barry, E. J., New York.
Carter, Carter & Kilham,
Boston.
Finlay & Branswig, New
Orleans.
Langley & Michaels, San
Francisco.
Lehn & Fink, New
York.

McKesson & Robbins, New
York.
Muth Brothers & Co.,
Baltimore.
Roller & Shoemaker,
Philadelphia.
Schieffelin, W. H., & Co.,
New York.
Shoemaker, R. & Co.,
Philadelphia.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted
to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are
not traceable.

THOS. HUBBUCK & SON,

(Established 1765). LTD.

**24 LIME STREET,
LONDON, E.C.**

Manufacturers of—

**White Lead, White Zinc,
Paints, Oils,
Colours, Varnishes, &c.**

AUSTRALIAN OFFICE—

34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure
Oxide Wholesale only, in quantities of
not less than 2 cwt.

ROBERT BLACKIE

**SHEN WORKS,
Tower Bridge Rd.**

SPECIALIST FOR

SPUN OINTMENTS

(Reg. Trade Mark.)

UNEQUALLED.

LIME CREAMS in all sizes

A homogeneous Pure White Cream, which keeps indefinitely.

Fill up for the Winter Season with

"SHEN" JAVA POWDER

Bijou
18/-

Small
33/-

Large
48/-

Jumbo
78/- per gross.

1 gross assorted delivered free to any address for cash with order.

Handsome Show Cards Supplied.

THE BEST SELLER.

GOLD MEDAL, PARIS, 1900.

MORPHIA.

CODEIA.

APOMORPHIA.

MORPHIA ESTERS.

J. F. MACFARLAN & CO.

Manufacturing

ESTD.



1780.

Chemists.

EDINBURGH & LONDON

CHLOROFORM.

ETHER.

SALICIN.

CHRYSAROBIN.

LISTERIAN ANTISEPTIC DRESSINGS and MATERIALS.

Telegrams: "MORPHIA," EDINBURGH OR LONDON.

The HOFFMANN-LA ROCHE CHEM. WORKS

7 & 8 IDOL LANE, LONDON, E.C.

LIMITED

MANUFACTURERS OF

Fine Chemicals—Pure Alkaloids.

ACETYL. SALICYL. ACID.
ARECOLINE.
ATROPINE.
BRUCINE.
CAFFEINE.
CUMARINE.
ESERINE.



NARCOTINE.
HOMATROPINE.
DIACETYLMORPHIA.
PILOCARPINE.
THEOBROMINE.
VERATRINE.
STRYCHNINE.
GUAIACOL PREPS.

COCAINE 'ROCHE.'

'Roche' Chemicals answer the requirements of the various Pharmacopœias.
THEIR STANDARD QUALITY IS RECOGNISED.

Telephone No. 7270 CENTRAL

ICHTHYOL

WE warn buyers that fraudulent and ineffective articles purporting to be Ichthyol, or "equal to Ichthyol," are offered by unscrupulous dealers.

Genuine Ichthyol, as it has been studied and is wanted by the Medical Profession and supplied all the time to the Trade, is delivered by us in tins and bottles under our special label with our name. The use of our registered trade mark "ICHTHYOL" for any other product means deception and dishonesty, and will entail their penalties.

Physicians, Chemists, and Druggists are requested to report to us all cases where imitation products are suspected.

**ICHTHYOL COMPANY,
CORDES HERMANNI & CO.,
Hamburg.**



TRADE

MARK

PATENTED.

SPIDER BRAND

ALKALOIDS—SALLE.

Arecoline.	Perborate of Soda.
Cantharidine.	Pelletierine tannate.
Colchicine.	Pilocarpine.
Digitaline cryst. (digitoxine).	Quassine.
Ergotine.	Rinonine.
Eserine.	Sparteine.
Leithine	Veratrine.
	Yohimbine.

French Alkaloid Works :—

H. SALLE & CO., PARIS.

Sole Agents: F. WACHENDORFF & CO.
37 CRUTCHED FRIARS, LONDON, E.C.

SOUTH AFRICA, from Cape Town to the Zambesi.

LENNON LIMITED

Established in
SOUTH AFRICA
at

CAPE COLONY

Cape Town
Port Elizabeth
East London
Kimberley
Graaff Reinet
Aliwal North
Beaufort West
Mafeking
Oudtshoorn
Wynberg
Paarl
Stellenbosch

TRANSVAAL

Johannesburg
Fordsburg
Germiston
Doornfontein

NATAL

Durban

**ORANGE RIVER
COLONY**

Bloemfontein

RHODESIA

Bulawayo
Salisbury
Gatooma

*Wholesale Druggists,
Manufacturing Chemists,
Druggists' Sundriesmen.*

DEALERS IN

**Surgical Instruments, Dental, Optical, and Photographio
Goods, Perfumery, and Assay and Mining Requisites.**

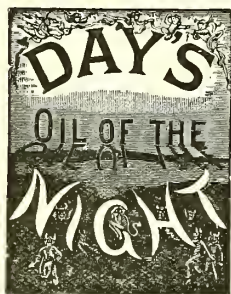
Contractors to the Governments of
**CAPE COLONY, NATAL, RHODESIA, TRANSVAAL,
and ORANGE RIVER COLONY.**

London Office, Warehouse, and Factory:

54 to 58 Queen Elizabeth Street, S.E.

Unrivalled position for the introduction and handling of Specialities.

DAY'S OIL OF THE NIGHT



**The great household Remedy for Chest Colds, Sore
Throat, Rheumatism, Sciatica, & all aches & pains.**

"A positive pain killer."—DR. GORDON STABLES, R.N.

Advertised Prices ... **1/1½ and 2/9** per bottle.

Trade Prices ... **10/- and 25/-** per dozen

CARRIAGE PAID.

Proprietors:—**DAY & SONS, CREWE, LTD., CREWE.**

YOU CAN DEPEND UPON 

THE RELIABLE QUALITY of all **Drugs, Essential
Oils, Chemicals, &c.**, supplied by us, and the **Immediate Execution** of
all orders with which you might favour us, however large or small.

HORNER & SONS, 24 George Street,
— Tower Hill, — **LONDON.**

J. H. Wolfensberger & Co., Basle, SWITZERLAND.

OFFER FOR OVERSEA COUNTRIES

DIETHYLBARBITURIC ACID & SODIUM SALT. SILVER PROTEINATE. TANNIN ALBUMINATE. PHENAZONE DERIVATIVES. DIMETHYLAMIDOPYRAZOLON & DERIVATIVES, ETC.

Where not represented, active agents wanted.



PATTINSON'S

MAGNESIA

CARBONATE, CALCINED, AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

London Agents: Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mincing Lane, London, E.C.

HERM. MADOERY, BASLE, Switzerland.

PHARMACEUTICAL PRODUCTS.

Specialities: Alkaloids, Bismuth Salts, Silver Salts,
Guaiacol derivatives, all Substitutes, &c. &c.

VANILLINE, Chem. Pure, 100 %,
ARTIFICIAL SUGAR, 550 times sweeter than
cane sugar.

PHOTOGRAPHIC DEVELOPERS :
Hydroquinone, Hermadol,
Diamidophenol-Chlorhydrate.

For SPECIAL OFFERS please address my

LONDON AGENTS : Messrs. PFEIFER & CO., 4 Cullum Street, E.C.

CONGREVE'S Balsamic ELIXIR

Is the oldest and still the most successful remedy for

CONSUMPTION,

Also for ASTHMA, BRONCHITIS, COUGHS, COLDS.

AND ALL AFFECTIONS OF THE LUNGS,

1s. 1½d., 2s. 9d., 4s. 6d. and 11s. Bottles.

© Also Dr. FLEMMING'S QUININE and CAMPHOR PILLS, 1/1½, 2/9 and 4/6.

COUNTER BILLS, with Chemist's name and address printed thereon, will be sent carriage paid on application to the Proprietor,

G. T. CONGREVE, Coombe Lodge, PECKHAM, LONDON, S.E.

TWO GOOD LINES.

Eucalyptus, Quinine & Cinnamon Perles

A first-class Show Card is given with 1 doz. & upwards.

PRICES: 1 doz. lots, 6/6; 2 doz. lots, 6/3; 3 doz. lots, 6/- per dozen.

Name and address on 2 doz. lots or any quantity assorted 2 or 3 doz. orders.

The "GONOCUS" Capsules.

In boxes of 25, 10/- per doz.

These Capsules are free from the unpleasant effects of Santal Oil, do not irritate the digestive organs or produce eructations.

In boxes of 36, 13/6 per doz.

FULL PARTICULARS ON APPLICATION,

THE WAND MANUFACTURING CO., LEICESTER.

It's Good Business

to make a certain profit of **25%** on the selling price of such a popular and effective remedy as Iron-Ox Tablets. We offer you this generous profit, and ask you in return to help us by displaying our advertising matter, and by recommending the Tablets to your customers. Mutual help will pay both you and us.

Prices of Iron-Ox Tablets to the Trade.

One Shilling size	Under 6 dozen 10/- per dozen net. Cash with order. 6 dozen 9/9 per dozen net in 30 days, or 9/6 cash in 10 days. 12 " 9/3 do. do. or 9/- do. do.
Four Shilling size	Under 1½ dozen 40/- per dozen net. Cash with order. 1½ dozen 39/- per dozen net in 30 days, or 38/- cash in 10 days. 3 " 37/- do. do. or 36/- do. do.
Mixed Orders	The above terms for 6 dozen 1/- size, or 1½ dozen 4/- size will be given on mixed orders value £3 . And our very best terms on mixed orders value £6 .

Retail Price P.A.T.A., PROTECTED **1/-** and **4/-** face value. Carriage paid on all goods.

New and attractive Dummy Cartons, Show Cards, Window Slips, &c., free on application.

IRON-OX

TABLETS.

To be obtained from all the principal Wholesale Houses or direct from **THE IRON-OX REMEDY CO., Ltd., 20 Cockspur Street, Trafalgar Square, London, S.W.**

PRUSSIAN OF POTASH

(Yellow and Red)

CYANIDE OF POTASH

(All Grades)

SUGAR OF LEAD

(Specially selected Crystals for Druggists' use)

NITRATE OF SILVER

(Crystals and Fused)

FREDK. BOEHM, LTD.,
16 JEWRY ST., E.C.

NOTICE.

MILK EMULSION

THE name "Milk Emulsion" is our Trade Mark for an Emulsion of Cod Liver Oil with Hypophosphites, and designates specifically that it is our preparation. Our Emulsion is known in commerce as "Milk Emulsion," and when "Milk Emulsion" is ordered people expect to receive FAULDING'S MILK EMULSION. We hereby give notice that no other persons can use the same name on their labels, wrappers or advertisements without infringing our legal rights.

"Milk Emulsion" is sold in Bottles only, Wholesale, by—

F. H. FAULDING & CO.

54 Great Tower Street, London, E.C.
54 King William Street, Adelaide, South Australia.
341-3 Murray Street, Perth, Western Australia.
48 O'Connell Street, Sydney, New South Wales.

ESFON

**The
Nerve
Food.**

ESFON

A Powder-Food that CURES.
Reinforces the NERVES.
Strengthens the system.
Appeals especially to Vegetarians.
Most palatable and really curative.
Interesting booklet on the relation of food to the nervous system.
A booklet on the counter and the Food sells itself.
Minimum retail price, 1/6, 3/-, 6/-.

C. J. BURT,

12 & 13 Henrietta St., London, W.C.

HOT-WATER BOTTLES

GUARANTEED FOR 2 YEARS.

Both "heavy" and "light" bottles are made from
best quality rubber.



Fig. 955.

TOP HANDLE.

SIZES.		HEAVY. s. d.		LIGHT. s. d.		PLUSH COVERS. s. d.
6 x 8 inch	...	2 8	each	...	2 5	each
6 x 10 "	...	3 0	"	...	2 8	"
6 x 12 "	...	3 5	"	...	3 1	"
8 x 10 "	...	3 8	"	...	3 2	"
8 x 12 "	...	4 2	"	...	3 7	"
8 x 14 "	...	4 9	"	...	4 2	"
10 x 12 "	...	4 9	"	...	4 2	"
10 x 14 "	...	5 4	"	...	4 10	"
12 x 14 "	...	6 2	"	...	5 7	"

N.B. Owing to the recent enormous rise in the price of raw rubber we are compelled to add an advance of 10% on above prices. This advance will be taken off the moment the state of the market permits, but as the present indications point to still higher prices, we strongly advise all our friends to place their orders for winter stock at once.

Each one in neat paper bag with directions for using.

For orders of two dozen bottles assorted we will put rubber tablet with customer's name on free of charge.



Fig. 957.

SIDE HANDLE.

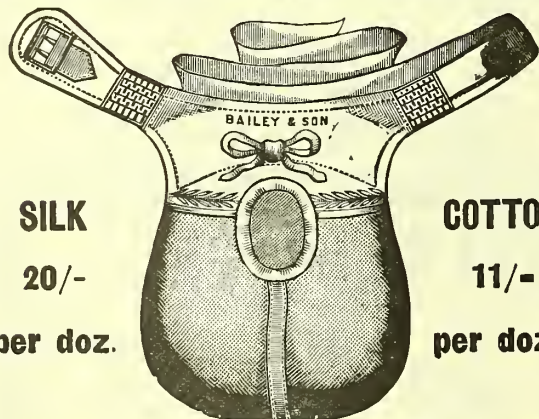
5% discount allowed for prompt cash off above prices. Carriage paid on orders of £2 and upwards to any town in the United Kingdom.

OUR GOODS ARE RIGHT AND PRICES LOW.

WRITE FOR NEW ILLUSTRATED PRICE LIST, POST FREE.

BURGE, WARREN & RIDGLEY, LIM., 91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

BAILEY'S "A.B.C." SUSPENSORIES.



SILK
20/-
per doz.

COTTON
11/-
per doz.

Assorted--A, small; B, medium; C, large bags.

W. H. BAILEY & SON,
38 OXFORD STREET, LONDON. W. [3]

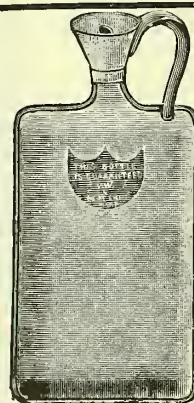
VERNON & CO. LTD.

Penwortham Mills, PRESTON,

MANUFACTURERS OF

**ABSORBENT LINTS,
COTTON WOOLS,
GAUZE TISSUE,
SANITARY TOWELS, &c.**

We spin the yarns from the raw material, weave the cloth, bleach, raise, and finish on our own premises.



VINCENT WOOD
For BRITISH MADE
Hot-Water Bottles.

One Quality only—
GUARANTEED RELIABLE.

10 x 8 3/6, 12 x 8 4/- each, plus 10%

Other Sizes in Proportion.

Also NEW COVERS.

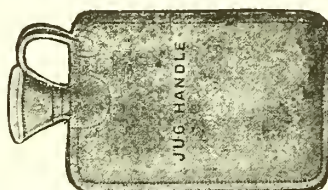
**CHEST AND LUNG PROTECTORS,
WINTER BODY BELTS, TRUSSES,
ELASTIC HOSIERY, and
Surgical Appliances generally.**

4 Albion Place, Blackfriars Bridge,
Send for List. LONDON, S.E.

The Hot-water Bottles which satisfy customers
ARE

DUNLOPS

Ask anyone who has stocked them, and you will find that they can always be relied upon. The quality is uniformly the best, careful attention being given in manufacture to ensure flawless products.



SPECIAL STOPPERS TO THESE BOTTLES
PREVENT OVERFLOW OF WATER.

DUNLOP RUBBER CO., Ltd., Manor Mills, Aston, BIRMINGHAM.

Telegrams: "ELASTIC BIRMINGHAM."

Telephone: ASTON 123 East.

Home Depots: LONDON—150 Clerkenwell Road, E.C.

Sole Representatives: H. & W. GREER, Ltd.

MANCHESTER—190 Deansgate. NEWCASTLE-ON-TYNE—11 Bigg Market. NOTTINGHAM—3a Lower Talbot St.
BRISTOL—70 Queen Square. GLASGOW—61/3 Bath St. DUBLIN—33 Westland Row. BELFAST—41 Chichester St.

PLASTERS

COURT
POROUS
YELLOW-RUBBER
ADHESIVE.

CORN
ORDINARY ADHES.
WHITE ADHES. ZnO
UMBILICAL, &c.



Medicated Soaps (Unna's, Eichhoff's.)

CORN FELT RINGS	MUSTARD LEAVES
LIP SALVES	OINTMENTS CONC.
NIVEA SOAP	PEBECOL TOOTH PASTE
LEUKOPLAST	GUTTAPLASTS

Unna's Preparations for Dermatology.

The Reliable Specialities of

P. BEIERSDORF & CO.

7 & 8 IDOL LANE, LONDON, E.C.

The Original and only Genuine

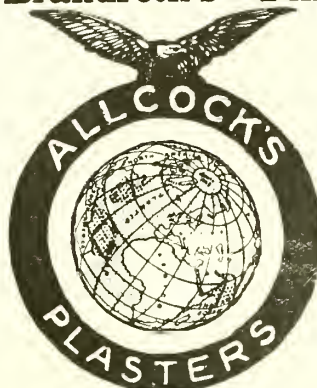
Allcock's

POROUS **PLASTERS**

A REMEDY OF 60 YEARS' STANDING.

**Allcock's Plasters
Allcock's Corn and
Bunion Plasters
Brandreth's Pills**

*The
Three
Reliables.*

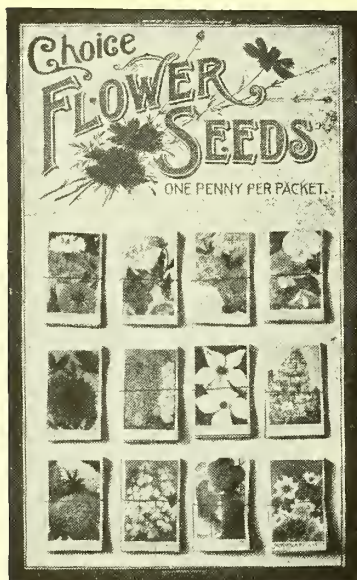


A HANDSOME
SHOWCARD
will be sent
free of cost
and post paid
on application.

ALLCOCK . . .
MANUFACTURING
COMPANY . . .

22 Hamilton Sq.,
Birkenhead.

"Sold all round the World."



PACKET SEEDS.

Try a
Sample
gross
(assorted as
per list) for

6/-.

Counter
Display
Card

*free with
opening order.*

- No. 1 COLLECTION.**
- | | |
|----------------------|--------------------|
| 15 Sweet Peas | 12 Shirley Poppy |
| 12 Mignonette | 6 Pansy |
| 15 Virginia Stock | 6 Musk |
| 6 Chrysanthemums | 6 Cornflower, Blue |
| 6 Eschscholtzia | 6 Nemophila |
| 6 Lupins | 6 Schizanthus |
| 6 Wallflower | 6 Aster, Victoria |
| 12 Dwarf Nasturtiums | 6 Nasturtium, Tall |

W. CONWAY & SONS, Ltd.
The C. & D.'s Seedsmen.
BULL GREEN, HALIFAX.
Estd. 1820. Tel. No. 111.

*In view of the shortage
of Seeds this year,
Chemists will be well
advised to place their
orders early. The
demand will be far in
excess of the supply.*

HASTING, LANG & CO. LIMITED.

LEADING HOUSE, carrying Large
Stock (in all sizes) of :—

TRANSPARENT TEATS

Soother Fittings and
General Chemists' Sundries.

COMPETITIVE PRICES.
ONLY BEST QUALITY GOODS.
COMPLETE SATISFACTION GUARANTEED.

WHOLESALE ONLY.

Showrooms & Offices :—

1 Roman St., Church St., Manchester.

London Agent :

Mr. F. A. GODDARD,

97 Queen Victoria Street, E.C.

Fly-Catchers! Fly-Catchers!

IN NEW DESIGNS.

Millions already sold for the Coming Season.

Cheap! Cheap! Delivery Free.

Plöttner & Franke

Manufacturers of Practical Novelties.

THIESSEN-ZEITZ, GERMANY.

ASK FOR SAMPLES & CATALOGUE.

POINTET & GIRARD

2 Rue Elzévir, PARIS.

PARIS 1900 : Gold Medal. MILAN 1906 : Diploma of Honour.
LONDON 1908 : "GRAND PRIX."

MANUFACTURERS OF

Quinine Salts, Glycerophosphates,

BIPHOSPHATES, LACTOPHOSPHATES CITRATES,
GLYCRRHIZINE, PROTEINATE OF SILVER,
QUININE WITHOUT BITTER TASTE FOR EXPORT,
ALCALOIDES, &c.

SPÉCIFIQUE BÉJEAN, THYROIDINE.

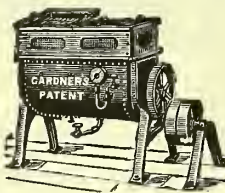
Agents: F. J. CARMICHAEL & CO.,

14 Water Lane, London, E.C.

GARDNER'S PATENT "RAPID" SIFTERS & MIXERS

OVER 3,100 working in

Almost Every Trade where
POWDERS are Sifted and
Mixed and Lumps Re-
duced, all being done at
one operation and without
loss by dust.



FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

DISPENSING BOTTLES & PHIALS

I. ISAACS & CO.'S REDUCED PRICES

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.1

The New Shape, Oval Fronted Bottles, 6 ounce size, 8 6 per gross
A Sample Free on Application.

FIRST QUALITY.

3 & 4 6 & 8 12 16 ounce. } Round edges, plain or
9/- 10/- 15/- 20/- per gross } graduated, quinine tinted.

SECOND QUALITY.

3 & 4 6 & 8 12 16 ounce. } Round edges, plain or
7/6 8/6 12/- 18/- per gross } graduated, clear blue tinted.

PANEL BOTTLES (New Series), Green or Blue Glass.

Good Quality.

2 2 1/2 4 6 8 10 ounce. } In ordering please say if
7/- 7/6 8/- 9/- 9/6 12/- per gross. } green or blue is required

WHITE PHIALS—GOOD QUALITY.

3/6 4/- 4/6 5/6 per gross } Plain or teaspoons.

Six gross and upwards, assorted or otherwise, sent carriage paid to any
address in the United Kingdom. Smaller quantities not carriage paid.

Established 120 years. Bankers: London County and Westminster Bank.

GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD. JOHN OAKEY & SONS, LIMITED.

MANUFACTURERS OF

Class and Flint Paper, Emery and Glass Cloth, Emery, Black Lead, Emery Wheels, Pumice Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish, Knife Boards, Brunswick and Berlin Black, etc.

OAKEY'S WELLINGTON KNIFE POLISH.

Prepared expressly for Oakey's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines.

Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

OAKEY'S NON-MERCURIAL SILVERSMITH'S SOAP.

For cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

OAKEY'S "POLYBRILLIANT" (REGISTERED).

A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Pastes. Tins, 1d., 2d., 3d., and 6d. each.

WELLINGTON BLOCK BLACK LEAD.

In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Rd., London, S.E.

Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1882 Gold Medal, Crystal Palace, 1884.

For CLEANING PLATE

BRADLEY & BOURDAS'S

ALBATHUM or WHITE ROUGE

(REGISTERED AS A TRADE MARK)

For CLEANING GOLD, SILVER and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Powders in use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.

Sold in Boxes at 1s. and 2s.; Tins, 6s.

48 BELGRAVE ROAD, & 6 PONT ST., BELGRAVE SQUARE, LONDON, S.W.

INDEX and BUYERS' GUIDE

See pages 7 to 11.

BOXES

ROUND, OVAL, SQUARE, or FOLDING, for the

DRUG, DRYSALTERY, AND CONFECTIONERY TRADES.

LABELS, WHEN PRINTED TO OUR INSTRUCTIONS, WE PUT ON PILL AND OTHER BOXES FREE OF CHARGE.

BOXES AND CASES FOR

Baking Powder, Black Lead Bottles, Camphor Ball, Capsules, Castor Oil, Cough Lozenges, Dispensing Powder, Eye Ointment, Fancy Boxes, Fullers' Earth, Folding Boxes, Glass Top Outers, Homœopathic Bottles, Insect Powders, Ink Cases, Jewellery, Lozenge, Lip Salve, Magnesia, Metal Paste, Marking Ink, Nipple Shields, Night Lights, Parcel Post, Pastilles, Pills, Potash Tablets, Plasters, Salt Lemon, Seidlitz Powder, Starch Gloss, Soaps, Soda Powder, Syringes, Tapers, Tooth Powder, Violet Powder, &c.

ROBINSON & SONS, LIM., WHEATBRIDGE MILLS, AND HOLMBROOK WORKS, **CHESTERFIELD,**

And 55 FANN STREET, ALDERSGATE STREET, LONDON.

GLASS BOTTLES.

The attention of BUYERS is invited to our

AERATED WATER BOTTLES

CODDS, SCREW AND SWING STOPPERS
CORK AND CROWN CORK MOUTHS

They are strong, well blown, and most satisfactory in use. Our Machine made Cork and Crown Cork Sodas are an especially fine line.

. . . ALSO WE RECOMMEND OUR . . .

WINCHESTERS

In Pale Green, Blue, and Amber Colours. Many sizes. Plain and ground stoppered.

KILNER POISONS

Our well-known make. Attractive style. All useful sizes. In Blue and Amber Colours.

DISPENSING

All shapes. Many sizes and graduations. In nice light Blue Tint.

MACHINE AND HAND-MADE BOTTLES

For Fruit, Jelly, Jam, Marmalade, Sweets, Soup, Pickles, Sauces, Milk, &c.

Our Illustrated Catalogue is handsomely got up and very useful to Buyers of Bottles.
Copy sent on Application.

KILNER BROTHERS, Ltd.

No. 3 G.N. Goods Station, KING'S CROSS, LONDON.